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- 1.820 sudo 1.8.31-1ubuntu1.5**
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- 1.822 unsafe-assume-no-moving-gc 0.0.0-20230221090011-e4bae7ad2296**
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- 1.825 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6**
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- 1.828 docker 23.0.3+incompatible**
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- 1.830 jsr305 3.0.2**
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- 1.838 joda-time 2.12.5**
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- 1.839 lz4-java 1.8.0**
- 1.839.1 Available under license
- 1.840 netty-codec 4.1.92.Final**
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- 1.841 netty 4.1.92.Final**
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- 1.842 netty-transport-native-unix-common 4.1.92.Final**
- 1.842.1 Available under license
- 1.843 netty-resolver 4.1.92.Final**
- 1.843.1 Available under license
- 1.844 netty-transport 4.1.92.Final**
- 1.844.1 Available under license
- 1.845 netty-handler 4.1.92.Final**
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- 1.846 netty-transport-classes-epoll 4.1.92.Final**
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- 1.847 free-type 2.10.1-2ubuntu0.3**
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- 1.848.1 Available under license
- 1.849 x-sync 0.2.0**
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- 1.850 etcd-raft 0.5.0-alpha.5.0.20220915004622-85b640cee793**
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- 1.852 cockroachdb-datadriven 0.0.0-20190809214429-80d97fb3cbaa**
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- 1.853 libpgp-error 1.37-1**
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- 1.854 x-net 0.10.0**
- 1.854.1 Available under license
- 1.855 jersey-container-servlet 2.39.1**
- 1.855.1 Available under license
- 1.856 jersey-bean-validation 2.39.1**
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- 1.857 docker-distribution 2.8.2+incompatible**
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- 1.858 google-golang-org-genproto 0.0.0-20200526211855-cb27e3aa2013**
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- 1.860 kube-openapi 0.0.0-20230501164219-8b0f38b5fd1f**
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- 1.861 python-setuptools 67.8.0**
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- 1.862 term 0.5.0**
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- 1.863 kubernetes-klog 2.100.1**
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- 1.864 ncurses 6.2-0ubuntu2.1**
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- 1.865 systemd 245.4-4ubuntu3.22**
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- 1.869 logback-access 1.2.12**
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- 1.879 google-golang-org-genproto 0.0.0-20200825200019-8632dd797987**
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  - 1.882.1 Available under license
- 1.883 perl 5.30.0-9ubuntu0.4**
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- 1.884 nghttp2 1.40.0-1ubuntu0.1**
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- 1.885 jersey-server 2.39.1**
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- 1.886 jersey-container-servlet-core 2.39.1**
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- 1.887 jackson-dataformat-yaml 2.15.2**
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- 1.888 jackson-module-scala\_2.13 2.13.5**
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- 1.889 openssh 8.2p1-4**
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- 1.890 netty-transport-native-epoll 4.1.92.Final**
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- 1.891 lz4 1.5.2**
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- 1.892 python-requests 2.22.0-2ubuntu1.1**
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- 1.893 jersey-common 2.39.1**
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- 1.894 scala-collection-compat\_2.13 2.10.0**
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- 1.895 reload4j 1.2.25**
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- 1.896 python-pip 20.0.2-5ubuntu1.9**
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- 1.897 util-linux 2.34-0.1ubuntu9.4**
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- 1.903 jackson 2.15.2**
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- 1.907 logrus 1.9.3**
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- 1.908 openjdk-jre 1.8.0u372**
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- 1.909 python-setuptools 68.0.0**
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- 1.910 jersey-media-multipart 2.39.1**
  - 1.910.1 Available under license
- 1.911 free-type 2.10.1-2ubuntu0.3**
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- 1.912 gmp 6.2.0+dfsg-4ubuntu0.1**
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- 1.913 prometheus-procfs 0.10.1**
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- 1.914 json-java 20230618**
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- 1.915 apiextensions-apiserver 0.27.3**

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- 1.920 netty-codec 4.1.94.Final**
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- 1.921 netty-transport-native-unix-common 4.1.94.Final**
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- 1.927 metrics 4.2.19**
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- 1.931 kubernetes-api 0.27.3**
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- 1.962 dropwizard-validation 2.1.7**
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- 1.996 gopkg.in-inf 0.9.1**
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- 1.997 go-uber-org-multierr 1.6.0**
  - 1.997.1 Available under license
- 1.998 go.uber.org/atomi 1.7.0**
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- 1.999 goprotobuf 1.5.3**
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- 1.1000 kustomize-api 0.13.5-0.20230601165947-6ce0bf390ce3**
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- 1.1001 kustomize-kyaml 0.14.3-0.20230601165947-6ce0bf390ce3**
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- 1.1002 toml v1.3.2**
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- 1.1003 jdk-zulu 8.72.0.17-1**
  - 1.1003.1 Available under license
- 1.1004 okio 3.5.0**
  - 1.1004.1 Available under license
- 1.1005 golang 1.20.7**
  - 1.1005.1 Available under license
- 1.1006 golang 1.19.10**
  - 1.1006.1 Available under license
- 1.1007 elfutils 0.176-1.1ubuntu0.1**
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- 1.1008 tomcat-coyote 9.0.80**
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- 1.1009 tomcat-dbc 9.0.80**
  - 1.1009.1 Available under license
- 1.1010 tomcat-jni 9.0.80**
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- 1.1011 tomcat-websocket 9.0.80**
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- 1.1012 tomcat 9.0.80**
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**1.1013 tomcat-util-scan 9.0.80**

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**1.1014 apr-util 1.6.1-4ubuntu2.2**

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**1.1015 vim 8.1.2269-1ubuntu5.17**

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**1.1018 mergo 0.3.6**

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**1.1019 cyphar-filepath-securejoin 0.2.4**

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**1.1020 linux-libc-dev 5.4.0-163.180**

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**1.1022 openssl 1.1.1w**

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**1.1023 kube-openapi 0.0.0-20230717233707-2695361300d9**

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**1.1024 kubernetes-api 0.28.2**

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**1.1025 kubernetes-apimachinery 0.28.2**

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**1.1026 kubernetes-client 0.28.2**

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**1.1027 apiextensions-apiserver 0.28.2**

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**1.1028 kubernetes-component-base 0.28.2**

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**1.1029 evanphx-json-patch 5.7.0**

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**1.1030 kubernetes-cliruntime 0.27.3**

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**1.1032 golang 1.20.8**

1.1032.1 Notifications

- 1.1032.2 Available under license
- 1.1033 netty-transport-native-epoll 4.1.94.Final**
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- 1.1034 gopkg.in-yaml 2.4.0**
  - 1.1034.1 Available under license
- 1.1035 containerd 1.7.6**
  - 1.1035.1 Available under license
- 1.1036 kubernetes-kubectrl 0.28.2**
  - 1.1036.1 Available under license
- 1.1037 kubernetes-cliruntime 0.28.2**
  - 1.1037.1 Available under license
- 1.1038 sql-migrate 1.5.2**
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- 1.1039 kubernetes-apiserver 0.28.2**
  - 1.1039.1 Available under license
- 1.1040 tomcat-jdbc 9.0.80**
  - 1.1040.1 Available under license
- 1.1041 google-golang-org-genproto 0.0.0-20200513103714-09dca8ec2884**
  - 1.1041.1 Available under license
- 1.1042 golang 1.19.13**
  - 1.1042.1 Available under license
- 1.1043 glibc 2.31-0ubuntu9.12**
  - 1.1043.1 Available under license
- 1.1044 commons-pool 9.0.80**
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- 1.1045 commons-dbcp 9.0.80**
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- 1.1046 toml v1.2.1**
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- 1.1047 kotlin 1.9.10**
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- 1.1048 spew 1.1.1**
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- 1.1049 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415**
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- 1.1050 mergo 0.3.13**
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- 1.1051 gofuzz 1.2.0**
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## 1.1052 grpc-gateway 1.16.0

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## 1.1053 logrus 1.9.0

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## 1.1054 urfave-cli 1.22.4

1.1054.1 Available under license

## 1.1055 helm-sh-helm 3.13.0

1.1055.1 Available under license

## 1.1056 telnetd-x 2.1.1

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# 1.1 libjpeg 6b

## 1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

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This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info as usage.doc).  
wizard.doc      Advanced usage instructions for JPEG wizards only.  
change.log      Version-to-version change highlights.

Programmer and internal

documentation:

libjpeg.doc    How to use the JPEG library in your own programs.  
example.c      Sample code for calling the JPEG library.  
structure.doc   Overview of the JPEG library's internal structure.  
filelist.doc    Road map of IJG files.  
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment

with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)

omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.

1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups <comp.graphics.misc>, <news.answers>, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other <news.answers>

archive sites, including the official news.answers  
archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.  
If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu)  
with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.



We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

## 1.2 resourcelocator 1.0.1

### 1.2.1 Available under license :

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2000-05-05

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*   Date: 2006-sep-08
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```
* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
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```

\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingComponentWrapper.java  
\*  
/opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java  
\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java  
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\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/ContainerWrapper.java  
\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/AC.java  
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/opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/PlatformDefaults.java  
\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java  
\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtComponentWrapper.java  
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* @version 1.0
* @author Mikael Grev, MiG InfoCom AB
*   Date: 2006-sep-08
*/

/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
will not
* affect the flow or grid positions. The positioning is relative to the parent
and can not (as padding) be used
* to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
* <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
* and x2 will just absolutely positions the component.
* <p>
* Note that { @link #setBoundsInGrid(boolean) } changes the interpretation of thisproperty slightly.
* <p>
* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at

```

www.migcomponents.com.

\* @return The current value as a new array, free to modify.

\*/

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\* Date: 2006-sep-08

\*/

/\*\* Returns the gaps as pixel values.



\* @param parent The parent. Used to get the pixel values.  
\* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).  
\* @param  
refSize The reference size used to get the pixel sizes.  
\* @param before IF it is the gap before rather than the gap after to return.  
\* @return The [min,preferred,max] sizes for the specified gap. Uses { @link  
net.miginfo.com.layout.LayoutUtil#NOT\_SET}  
\* for gap sizes that are `null`. Returns `null` if there was no gap specified. A new and  
free to use array.  
\*/

Found in path(s):

\* /opt/cola/permits/117692136\_1695289078.9935892/0/miglayout-3-5-5-sources-  
jar/net/miginfo.com/layout/DimConstraint.java

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# 1.9 animal-sniffer-annotation 1.14

## 1.9.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/66" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="MobileOptimized" content="width" />
  <title>The MIT License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-business/css/ie8.css?ooglib" media="all" />
  <![endif]-->

  <!-- HTML5 element support for IE6-8 -->
  <!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
  <![endif]-->
  <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
  <script type="text/javascript">
  <!--/--><![CDATA[//><!--
```

```

window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKAK2siiZU.js"></script>
<script type="text/javascript">
<!--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD3I9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA"},"js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1}},{"urlIsAjaxTrusted":{"\/licenses\/mit-

```

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license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});
//--><![>
</script>
</head>
<body
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
<div id="skip-link">
  <a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
  <div class="container">

    <!-- #header-top-inside -->
    <div id="header-top-inside" class="clearfix">
      <div class="row">

        <div class="col-md-8">
          <!-- #header-top-left -->
          <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
              <div
id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                  <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
                </div>
              </div>
            <!-- EOF:#header-top-left -->
          </div>

          <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">

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    <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
  <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
  </div>
  <!-- EOF:#header-top-right -->
</div>

</div>
</div>
<!-- EOF: #header-top-inside
-->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

    <!-- #header-inside -->
    <div id="header-inside" class="clearfix">
      <div class="row">
        <div class="col-md-8">

          <div id="logo">
            <a href="/" title="Home" rel="home">  </a>
          </div>

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                <div id="site-name">
                <a href="/" title="Home">Open Source Initiative</a>
                </div>

        </div>

        <div class="col-md-4">

                </div>
        </div>
</div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF:
#header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
    <div class="container">

        <!-- #main-navigation-inside -->
        <div id="main-navigation-inside" class="clearfix">
            <div class="row">
                <div class="col-md-12">
                    <nav role="navigation">
                        <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
    <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History
of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-
total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors"
class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board -
Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a
href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-
1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent
the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1"

```

class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI incorporation record" class="sf-depth-3">Articles of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a href="/conflict\_of\_interest\_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines" title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1 menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explanations and rationale interspersed." class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by Category" class="sf-depth-2">Licenses by Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming to the OSD" class="sf-depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval" title="Certifying licences as OSD-compliant" class="sf-depth-2 menuparent">License Review Process</a><ul><li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/proliferation" title="Supporting choice while maintaining sanity" class="sf-depth-3">Licence Proliferation</a></li><li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report" title="License Proliferation Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board</a></li></ul></li><li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/osr-intro" title="Open Standards Requirement for Software" class="sf-depth-2 menuparent">Open Standards</a><ul><li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osr" title="An "open standard" must not prohibit conforming implementations in open source software." class="sf-depth-3">The Open Standards Requirement</a></li><li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/osr-compliance" class="sf-depth-3">Open Standards Requirement Compliance</a></li><li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/osr-rationale" class="sf-depth-3">Open Standards Requirement Rationale</a></li><li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/osr-faq" title="Frequently asked questions about the Open Standards Requirement" class="sf-depth-3">OSR Frequently Asked Questions</a></li></ul></li><li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent"><a href="/membership" title="Page for our various membership programs" class="sf-depth-1 menuparent">Membership</a><ul><li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent"><a href="/members" class="sf-depth-2

menuparent">Individuals</a><ul><li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/civicrm/contribute/transact?reset=1&id=1" title="" class="sf-depth-3">Join</a></li></ul></li><li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates" title="Home page for OSI's membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates</a><ul><li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/affiliates/about" class="sf-depth-3">Become an Affiliate</a></li><li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/affiliates/list" title="Full list of non-profits and not-for-profits affiliated to OSI" class="sf-depth-3">List of Affiliates</a></li><li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children"><a href="/AffiliateRequirements" class="sf-depth-3">Affiliate Criteria</a></li></ul></li><li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children"><a href="/sponsors" class="sf-depth-2">Sponsors & Support</a></li></ul></li><li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page for our various community members." class="sf-depth-1 menuparent">Community</a><ul><li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent"><a href="/lists" title="The virtual committees where the OSI's work gets done" class="sf-depth-2 menuparent">Mailing lists</a><ul><li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/codeofconduct" title="Guidelines for OSI Mailing Lists" class="sf-depth-3">General Code of Conduct</a></li><li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a href="/codeofconduct/licensing" class="sf-depth-3">Licensing Code of Conduct</a></li><li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/public\_forums\_disclaimer" class="sf-depth-3">Disclaimer for OSI Public Forums</a></li><li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children"><a href="/public\_archives\_policy" class="sf-depth-3">Policy on Public Communications and Archives</a></li></ul></li><li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title="" class="sf-depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources" title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source" class="sf-depth-3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/advocacy/case\_for\_business.php" title="How to advocate Open Source to businesses" class="sf-depth-3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children"><a href="/working\_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children"><a href="/osi-open-source-education" title="OSI's Open Source Education Initiative and Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news" title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events</a><ul><li

```
id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of newsletters" class="sf-depth-2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children"><a href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
```

```
</nav>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation-inside -->
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #main-navigation -->
```

```
<!-- #page -->
```

```
<div id="page"
class="clearfix">
```

```
<!-- #main-content -->
```

```
<div id="main-content">
```

```
<div class="container">
```

```
<!-- #messages-console -->
```

```
<!-- EOF: #messages-console -->
```

```
<div class="row">
```

```
<section class="col-md-12">
```

```
<!-- #main -->
```

```
<div id="main" class="clearfix">
```

```
<!-- EOF:#content-wrapper -->
```

```
<div id="content-wrapper">
```

```
<h1 class="page-title">The MIT License</h1>
```

```
<!-- #tabs -->
```

```
<div class="tabs">
```



```

</div>
<!-- EOF: #tabs -->

<!-- #action links -->
<!-- EOF: #action links -->

<div class="region region-content">
<div id="block-system-main" class="block block-system clearfix">

<div class="content">
<article id="node-66" class="node node-page clearfix">

<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>MIT License</b></button>

<p id="demo"></p>

<script>
<!--/--><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community,
it does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}
}

```

```
//--><![ ]>
</script></div>
```

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```
</div></div></div> </div>
```

```
</article> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#content-wrapper -->
```

```
</div>
```

```
<!-- EOF:#main -->
```

```
</section>
```

```
</div>
```

```
</div>
```

```
</div>
```

```

<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

            <div class="region region-footer">
              <div id="block-block-11" class="block block-block clearfix">

                <div class="content">
                  <div class="filler" style="vertical-align: middle; display: inline-block;">
                    <p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
                    <a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
                    vertical-align: middle;"></a>

                    <a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
                    center; vertical-align: middle;"></a>

                    <a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
                    cell; text-align: center; vertical-align: middle;"></a>

                    <a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
                    middle;"></a>

                    <a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
                    center; vertical-align: middle;"></a>

                  <script id="fbwiuwz">
                    <!--//--><![CDATA[// ><!--
                    (function(i){var

```

```
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s;)}('fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
//--><![ ]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><![ ]>
</script> </div>
</div>
</div>
```

```
</div>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
<!-- EOF: #subfooter-inside -->
```

```
</div>
</footer>
<!-- EOF:#subfooter -->
```

</body>  
</html>

# 1.10 commons-io 1.3.2

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# 1.11 httpcomponents-core 4.3.2

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\*



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/opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java  
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-  
jar/com/thoughtworks/paranamer/CachingParanamer.java
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jar/org/intellij/lang/annotations/Pattern.java  
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jar/org/intellij/lang/annotations/Flow.java

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jar/org/jetbrains/annotations/Nullable.java  
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/opt/cola/permits/173667507\_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

## 1.14 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

## 1.15 failureaccess 1.0.1

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Found in path(s):

\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyStatement.java  
\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyPreparedStatement.java  
\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/pool/ProxyCallableStatement.java  
\*  
/opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/UtilityElf.java  
\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java  
\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/util/PropertyElf.java  
\* /opt/cola/permits/203480980\_1651176812.86/0/hikaricp-java7-2-4-13-sources-  
zip/com/zaxxer/hikari/HikariDataSource.java

```
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariPoolMXBean.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariConfigMXBean.java
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zip/com/zaxxer/hikari/HikariConfig.java
```

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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/FastList.java
```

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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyLeakTask.java
```

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*
```

```
/opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyResultSet.java
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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyConnection.java
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zip/com/zaxxer/hikari/util/DriverDataSource.java
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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/pool/ProxyFactory.java
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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/ConcurrentBag.java
```

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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/SuspendResumeLock.java
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zip/com/zaxxer/hikari/util/JavassistProxyFactory.java
```

## 1.26 javax-ws-rs-api 2.1.1

## 1.27 bzip2 1.0.8

## 1.28 spf13-pflag 1.0.3

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## 1.29 commons-lang3 3.7

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## 1.34 asm 3.2

## 1.35 pwauth 2.3.11-0.2

## 1.36 xerces-j 2.7.1

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## 1.38 jwalterweatherman 1.0.0

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# 1.41 ghodss-yaml 1.0.0

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## 1.42 cast 1.3.0

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# 1.44 bean-validation-api 2.0.1.Final

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# 1.45 libsmi 0.4.8

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both  
  traditional one-character options, and GNU'ish  
  --long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu /pub/Linux/libs](http://sunsite.unc.edu/pub/Linux/libs)

shhopt-1.1.2.tar.gz

Platforms: Requires ANSI C-compiler.

Copying-policy: BeerWare: If you have the time and money, send me a bottle

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# 1.46 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/strtoi.3bsd  
man/strtou.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcsncpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
src/radixsort.c  
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src/strmode.c  
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man/humanize\_number.3bsd  
man/stringlist.3bsd  
man/timeval.3bsd  
src/fmtcheck.c  
src/humanize\_number.c  
src/stringlist.c  
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man/getpeereid.3bsd  
man/pidfile.3bsd  
src/expand\_number.c

src/hash/sha512.h  
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man/readpassphrase.3bsd

man/strlcpy.3bsd

man/strtonum.3bsd

src/arc4random.c

src/arc4random\_linux.h

src/arc4random\_openbsd.h

src/arc4random\_uniform.c

src/arc4random\_unix.h

src/arc4random\_win.h

src/closefrom.c

src/getentropy\_aix.c

src/getentropy\_bsd.c

src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
src/getentropy\_solaris.c  
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes
passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

/\*

\* Marko Kiiskila carnil@cs.tut.fi

\*

\* Tampere University of Technology - Telecommunications Laboratory

\*

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## 1.57 dash 0.5.10.2-6

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# 1.60 slf4j 1.7.26

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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
<title>SLF4J License</title>
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
<body>
  <script type="text/javascript">prefix=";</script>

  <script src="templates/header.js" type="text/javascript"></script>
  <div id="left">
    <script src="templates/left.js" type="text/javascript"></script>
  </div>
  <div id="right">
    <script src="templates/right.js" type="text/javascript"></script>
  </div>

  <div id="content">
```

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</div>

</body>

</html>

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## 1.61 jansson 2.12-1build1

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## 1.62 libpng 1.6.37

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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 *
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 */
```

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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# 1.70 python-certifi 2019.11.28

## 1.70.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.71 openorb master

## 1.71.1 Available under license :

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Version 3, 29 June 2007

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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```

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## 1.81 mpdecimal 2.4.2-3

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## 1.91 libcanberra 0.30-7ubuntu1

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## 1.92 libogg 1.3.4-0ubuntu1

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(envelope-from <silviapfeiffer1@gmail.com>)  
id 1QsTXr-0004MO-Ek  
for ron@debian.org; Sun, 14 Aug 2011 05:47:35 +0000  
In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>  
References: <20110813065417.GV2324@audi.shelbyville.oz>  
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>  
Date: Sun, 14 Aug 2011 15:47:09 +1000  
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw\_VJAQNFZebm74k195zz+Q@mail.gmail.com>  
Subject: Re: Distributing the libogg RFCs in the Debian package  
To: Ron <ron@debian.org>  
Cc: Christopher Montgomery <monty@xiph.org>,  
Ivo Emanuel Goncalves <justivo@gmail.com>

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## 1.95 libxcb 1.14-2

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## 1.96 libsemanage-common 3.0-1build2

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# 1.99 grep 3.4-1

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Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/misc.c
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.c
```

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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/bitstring.3
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```

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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
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```

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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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*/
```

```
$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $
```

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

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\*

\* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

\*/

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# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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```
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.\" */  
.\"  
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $  
.\"
```

Found in path(s):

\*

/opt/cola/permits/1029757352\_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

# 1.101 go-grpc-prometheus 1.2.0

## 1.101.1 Available under license :

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Version 2.0, January 2004

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd

- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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## 1.104 gorilla 1.7.4

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# Use the following command to generate the list

#

# git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

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compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thriftl.ll  
compiler/cpp/src/thrifty.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
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lib/csharp/src/Protocol/TMessage.cs

lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
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Paul Borman <borman@google.com>

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theory

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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# 1.105 commons-lang3 3.8.1

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## 1.106 gods 1.12.0

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Upstream-Name: gods

Files-Excluded:

Godeps/\_workspace

Files:

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Source Package: xorg

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\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java

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/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java

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\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scripting/config/LangNamespaceUtils.java

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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/
```

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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
```

```

*
* <p>The
* { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
*
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
* { @link ComponentScan @ComponentScan } annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional } itself is not declared as
* { @link java.lang.annotation.Inherited
* @Inherited }; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

```

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/LifecycleProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/ScopedProxyCreator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/MBeanExportOperations.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/event/ContextStoppedEvent.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/validation/BindingResultUtils.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/config/ContextNamespaceHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/ApplicationContextException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/event/ContextStartedEvent.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/RemoteProxyFailureException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/RemoteLookupFailureException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/support/ObjectNameManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/Phased.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/format/FormatterRegistrar.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/RemoteInvocationFailureException.java

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/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/support/LiveBeansViewMBean.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/JmxException.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/MBeanExporterListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/event/ContextRefreshedEvent.java

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/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/validation/MessageCodesResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ui/context/HierarchicalThemeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/event/ContextClosedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/format/Formatter.java

\*

/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java

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\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java

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 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/access/InvocationFailureException.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scripting/ScriptSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java  
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jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java  
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 jar/org/springframework/jndi/JndiLookupFailureException.java  
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 jar/org/springframework/jmx/export/naming/SelfNaming.java  
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 jar/org/springframework/ui/context/Theme.java  
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 jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java  
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 jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-  
 jar/org/springframework/scheduling/Trigger.java  
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 jar/org/springframework/scheduling/TriggerContext.java  
 \*  
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 jar/org/springframework/validation/Validator.java  
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 jar/org/springframework/ejb/access/EjbAccessException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-

jar/org/springframework/ui/context/ThemeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-

jar/org/springframework/remoting/rmi/RmiClientInterceptor.java

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jar/org/springframework/cache/interceptor/CacheOperationSource.java

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/\*\*

\* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

\* reference through WebSphere's proprietary {@code AdminServiceFactory} API,

\* available on WebSphere 5.1 and higher.

\*

\* <p>Exposes the {@code MBeanServer} for bean references.

\* This FactoryBean is a direct alternative

to {@link MBeanServerFactoryBean},

\* which uses standard JMX 1.2 API to access the platform's MBeanServer.

\*

\* <p>See the javadocs for WebSphere's

\* <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>

\* and <a href="http://bit.ly/TRIX2r">{@code MBeanFactory}</a>.

\*

\* @author Juergen Hoeller

\* @author Rob Harrop

\* @since 2.0.3

\* @see javax.management.MBeanServer

\* @see MBeanServerFactoryBean

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-

jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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 /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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jar/org/springframework/jndi/JndiObjectFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
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 jar/org/springframework/scheduling/config/CronTask.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/EnvironmentAware.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jndi/JndiObjectLocator.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/support/MetricType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ejb/access/AbstractSlsbInvokerInterceptor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/annotation/EnableAsync.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/expression/CachedExpressionEvaluator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/ConditionEvaluator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java  
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 /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/cache/interceptor/NamedCacheResolver.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/cache/Cache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java  
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/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/ConfigurationClassParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/stereotype/Indexed.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jndi/JndiTemplateEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ejb/access/SimpleRemoteStatelessSessionProxyFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/ui/context/support/DelegatingThemeSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/cache/support/SimpleCacheManager.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/cache/config/CacheNamespaceHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/support/NotificationListenerHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/access/ConnectorDelegate.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/validation/BindingResult.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/config/IntervalTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/MBeanExporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/event/SourceFilteringListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/scheduling/config/FixedDelayTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/annotation/JsR330ScopeMetadataResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/support/AbstractApplicationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-jar/org/springframework/context/support/ApplicationObjectSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1069140787\_1594508194.23/0/spring-context-5-0-2-release-sources-1-

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jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
* /opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
*
/opt/ws_local/PERMITS_SQL/1069140787_1594508194.23/0/spring-context-5-0-2-release-sources-1-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
```

# 1.120 leveldb 0.12

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LookupKey.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/MMapLogWriter.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/FileMetaData.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/VariableLengthQuantity.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogWriter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/AbstractSeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogMonitors.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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jar/org/iq80/leveldb/impl/LogMonitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/LookupResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/DbConstants.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/Filename.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/FileChannelLogWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/Level.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/table/UserComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/LogReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/util/PureJavaCrc32C.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/SeekingIteratorAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/util/Level0Iterator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/util/LevelIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/ValueType.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/util/Slice.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/SnapshotImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/Iq80DBFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/InternalUserComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/WriteBatchImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/SnapshotSeekingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/LogConstants.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/util/DynamicSliceOutput.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/VersionEditTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-  
jar/org/iq80/leveldb/impl/VersionEdit.java



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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Slices.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Snappy.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/SeekingIterable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/DbLock.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogChunkType.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/DbImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/ByteBufferSupport.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BlockBuilder.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/InternalKey.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BlockEntry.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/FileChannelTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/Level0.java
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/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/MemTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/SizeOf.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/SliceComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BlockIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/ReadStats.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/Closeables.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/MMapTable.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/Footer.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/BasicSliceOutput.java
*

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/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/FileUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BlockTrailer.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/TableBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SequenceNumber.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/DbIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/TableIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/InternalKeyComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/TableCache.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/CustomUserComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/Table.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BlockHandle.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/IntVector.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Compaction.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/InternalIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/InternalTableIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Logs.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/SliceInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/SliceOutput.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/VersionSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/Block.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/MergingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SeekingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Version.java

\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/BytewiseComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1070621161\_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/InternalEntry.java

# 1.121 activation 1.1.1

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.



Since May 20 2000, it is maintained by Roland Bauerschmidt  
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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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```
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```

```
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Ty Coon, President of Vice
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## 1.127 sed 4.7-1

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.0.8 of 13 July 2019



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# 1.131 cracklib 2.9.6-3.2

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

^L

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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^L

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It is safest to attach them to the start of each source

file to most

effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

-----  
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)  
-----

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML  
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20  
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18  
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan  
=20

-----  
Nathan Neulinger EMail: nneul@um...  
University of Missouri - Rolla Phone: (573) 341-6679  
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----  
> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:15 PM  
> To: cracklib-devel@li...  
> Subject: [Cracklib-devel] cracklib license  
>=20  
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing  
> libraries under  
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
> -mike

Re: [Cracklib-devel] cracklib license  
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML  
On Monday 01 October 2007, Neulinger, Nathan

wrote:

> I understand that, and you're welcome to bring it up with Alec directly  
> and see if he wants to relicense his code as LGPL... but at this point,  
> it was enough to just get it consistent and documented as to what it was  
> released under. This wasn't actually a license change, just a  
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20  
GPL-2 ... it was a modified artistic license ... i didnt notice the license=  
=20  
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=  
eir=20  
applications are also GPL-2 which imo is just wrong. it isnt the place of =  
a=20  
library to dictact to application writes what license they should be using.=  
=20  
thus LGPL-2.1 enters to fill this void.  
=2Dmike

Re: [Cracklib-devel]

cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:33 PM

> To: Neulinger, Nathan

> Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt the

> place of a

> library

to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be  
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I

think it is in everyone's

best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct  
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional

code, so whatever licensing y'all come up with is fine

>> by me.

>

> I am sympathetic. Guys, what do you reckon?

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro

>>> maintainers to get together with Alec in a conversation and come to a

>>> decision as to what licensing scheme y'all want. I haven't really done

>>> much other than cleaning up the packaging and patches and a small

>>> bit of

>>> additional code, so whatever licensing y'all come up with is fine

>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be

>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable

> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,



> GPLv2 with the option of using  
the library under a later version of the  
> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.  
>  
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make  
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we  
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

-----  
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.  
-----

CrackLib was originally licensed with a variant of the Artistic license. In the

interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-----

From  
alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:03 -0500  
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000  
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtp020623  
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from  
[82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>

X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length:  
585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umr.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license  
> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

# 1.132 go-md2man 2.0.0

## 1.132.1 Available under license :

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## 1.133 less 551-1ubuntu0.1

### 1.133.1 Available under license :

Less License  
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Less

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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c,

include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From

strings/apr\_snprintf.c:

\*

\* cvt - IEEE floating point formatting routines.

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# 1.136 libxi 1.7.10-0ubuntu1

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## 1.137 cdebconf 0.251ubuntu1

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## 1.138 tcl 8.6.10+dfsg-1

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## 1.139 oniguruma 6.9.4-1

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## 1.141 bouncycastle-fips 1.0.3

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
```

# 1.142 Icms 2.11

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Little CMS

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# 1.143 jctools-core 3.1.0

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<artifactId>jctools-core</artifactId>
```

```
<groupId>org.jctools</groupId>
```

```
<version>3.1.0</version>
```

```
<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

```
<dependency>
```

```
<groupId>org.hamcrest</groupId>
```

```
<artifactId>hamcrest-all</artifactId>
```

```
<version>${hamcrest.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>junit</groupId>
```

```
<artifactId>junit</artifactId>
```

```
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```

```
<scope>test</scope>
```

```
</dependency>
```

```
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```

```
<groupId>com.google.guava</groupId>
```

```
<artifactId>guava-testlib</artifactId>
```

```
<version>${guava-testlib.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```
</dependencies>
```

```
<build>
```

```
<plugins>
```

```
<plugin>
```

```
<groupId>org.apache.maven.plugins</groupId>
```

```
<artifactId>maven-surefire-plugin</artifactId>
```

```
<version>3.0.0-M3</version>
```

```
<configuration>
```

```
<includes>
```

```
<include>*</include>
```

```

</includes>
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<artifactId>maven-bundle-plugin</artifactId>
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<instructions>
<Import-Package>sun.misc;resolution:=optional</Import-Package>
</instructions>
</configuration>
</plugin>
<plugin>
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<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
<executions>
<execution>
<id>attach-sources</id>
<phase>verify</phase>
<goals>
<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
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<version>3.1.1</version>
<configuration>
<additionalOptions>
<additionalOption>-Xdoclint:none</additionalOption>
</additionalOptions>
<source>8</source>
</configuration>
<executions>
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<goals>
<goal>jar</goal>
</goals>
</execution>
</executions>
</plugin>
</plugins>

```



</build>

<distributionManagement>

<repository>

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<name>jctools-jctools</name>

<url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>

</repository>

</distributionManagement>

<url>https://github.com/JCTools</url>

<inceptionYear>2013</inceptionYear>

<licenses>

<license>

<name>Apache

License, Version 2.0</name>

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

<distribution>repo</distribution>

</license>

</licenses>

<scm>

<url>https://github.com/JCTools/JCTools</url>

<connection>scm:git:https://github.com/JCTools/JCTools</connection>

<tag>HEAD</tag>

</scm>

<developers>

<developer>

<url>https://github.com/nitsanw</url>

</developer>

<developer>

<url>https://github.com/mjpt777</url>

</developer>

<developer>

<url>https://github.com/RichardWarburton</url>

</developer>

<developer>

<url>https://github.com/kay</url>

</developer>

<developer>

<url>https://github.com/franz1981</url>

</developer>

</developers>

<prerequisites>

<maven>3.5.0</maven>

```

</prerequisites>

<properties>
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<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

#### Found

in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpvcUnboundedAtomicArrayQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

\*

/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java

\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedListQueueAtomicNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpSCLinkedListQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedListAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCLinkedListAtomicQueue.java  
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\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
\*

/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/Pow2.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpvcChunkedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/LinkedQueueNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpvcUnboundedArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/PortableJvmInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingSetInt.java  
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/opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscLinkedQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/UnsafeRefArrayAccess.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscCompoundQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCChunkedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/QueueFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/UnsafeAccess.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/MpscUnboundedArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/SpSCGrowAtomicArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/IndexedQueueSizeUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java  
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 /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/SpSCGrowArrayQueue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/util/RangeUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
 jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

## 1.144 commons-lang3 3.1

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Metadata-Version: 1.2

Name: pyasn1

Version: 0.4.8

Summary: ASN.1 types and codecs

Home-page: <https://github.com/etingof/pyasn1>

Author: Ilya Etingof

Author-email: [etingof@gmail.com](mailto:etingof@gmail.com)

Maintainer: Ilya Etingof <[etingof@gmail.com](mailto:etingof@gmail.com)>

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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

Platform: any

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: Education

Classifier: Intended Audience :: Information Technology

Classifier: Intended Audience :: System Administrators

Classifier: Intended Audience :: Telecommunications Industry

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Operating System :: OS Independent



Classifier: Programming Language :: Python :: 2  
Classifier: Programming Language :: Python :: 2.4  
Classifier:  
Programming Language :: Python :: 2.5  
Classifier: Programming Language :: Python :: 2.6  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3  
Classifier: Programming Language :: Python :: 3.2  
Classifier: Programming Language :: Python :: 3.3  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Classifier: Topic :: Communications  
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py  
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\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/\_\_main\_\_.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_namedval.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test\_opentype.py  
\* /opt/cola/permits/1110812511\_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py  
\*

```

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_char.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
*
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*

```

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ASN.1 library for Python

-----

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)  
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)  
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)  
[![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)  
[![GitHub license](https://img.shields.io/badge/license-BSD-blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range

of protocols based on

[ASN.1 specification]([https://www.itu.int/rec/dologin\\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items)).

## Features

-----

\*

Generic implementation of ASN.1 types (X.208)

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.7

\* MT-safe

\* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
```

```

id    INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
}
...

```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode

```

```
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
...
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...```
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
...```
```

```
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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## ASN.1 library for Python

=====

```
.. toctree::  
    :maxdepth: 1
```

### Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

### What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions](https://news.ycombinator.com/item?id=8871453) <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing



arbitrarily complex, nested data structures.

\* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

\* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation

-----

```
.. toctree::  
    :maxdepth: 2  
  
    /pyasn1/contents
```

## Use case

-----

```
.. toctree::  
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

/changelog

## License

-----

The PyASN1 software is distributed under 2-clause BSD License.

```
.. toctree::  
    :maxdepth: 2
```

/license

## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search

``pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`` \_  
mailing list archive.

Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

- \* ``ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`` \_ by Olivier Dubuisson
- \* ``ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`` \_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* ``ITU standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`` \_

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* ``A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`` \_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

- \* `/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst`

## 1.159 packaging 19.2

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## 1.160 queue 1.1.0

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## 1.161 viper 1.7.1

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## 1.162 jackson-xc 2.9.8

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## 1.163 lockfile 0.12.2

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## 1.164 gopacket 1.1.19

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# 1.165 cron 3.0pl1-136ubuntu1

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 * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
 * I'll try to keep a version up to date. I can be reached as follows:
 * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
 */
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since

both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by

Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows \_PATH\_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `u USER' is given; `u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other

possibilities.

Kill your existing cron daemon -- do `ps aux` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
```

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*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
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```

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c  
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Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c  
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\*

\* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

\*/

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\*/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h

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./" \*/

./"

./" \$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp \$

./"

Found in path(s):

\*

\*/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
```

/opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1

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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

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```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3
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.\" *  
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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul  
.\" */  
.\"  
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $  
.\"
```

Found in path(s):

\*

```
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8  
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# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up

and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

\* /opt/cola/permits/1125565035\_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
*
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
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```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile
```

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Version 2.1, February 1999

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## 1.167 diffutils 3.7-3

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## 1.168 gdbm 1.18.1-5

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Version 3, 29 June 2007

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## 1.169 mime-support 3.64ubuntu1

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## 1.170 Imdb 0.9.24-1

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jar/okhttp3/internal/http/RequestLine.java

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jar/okhttp3/internal/NamedRunnable.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/StreamResetException.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-

jar/okhttp3/internal/http/RealInterceptorChain.java  
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```
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-  
jar/okhttp3/internal/cache/DiskLruCache.java  
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-  
jar/okhttp3/internal/http2/Http2Writer.java  
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-  
jar/okhttp3/internal/http2/Http2Connection.java  
*  
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-  
jar/okhttp3/internal/http2/Http2Stream.java  
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpDate.java  
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-  
jar/okhttp3/internal/http2/Http2Reader.java
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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Codec.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Util.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpCodec.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpHeaders.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Address.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http1/Http1Codec.java

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\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/DistinguishedNameParser.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/CertificateChainCleaner.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectInterceptor.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RealConnection.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/OkHostnameVerifier.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Connection.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/OptionalMethod.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheInterceptor.java  
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/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Headers.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketReader.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CertificatePinner.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketProtocol.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Callback.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Call.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Protocol.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Credentials.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/FormBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Challenge.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ResponseBody.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Header.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealResponseBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/TlsVersion.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheRequest.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/PushObserver.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RequestBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CipherSuite.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java  
\*  
/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/MultipartBody.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Internal.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RealCall.java  
\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpMethod.java

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\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java

\* /opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-

jar/okhttp3/internal/connection/RouteSelector.java

\*

/opt/cola/permits/1125673732\_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

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# 1.175 libxcrypt 4.4.10-10ubuntu4

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\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_compat.py

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_\_init\_\_.py

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/\_native.py

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.0

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://www.palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets Team

Maintainer-email: contact@palletsprojects.com

License: BSD

Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

## Installing

-----

Install and update using `pip`\_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. \_pip: <https://pip.pypa.io/en/stable/quickstart/>

## Examples

-----

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape
```

their arguments

```
>>> template = Markup("Hello <em>%s</em>")
```

```
>>> template % "World"
```

Markup('Hello &#34;World&#34;')

## Donate

-----

The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

.. `please donate today: <https://psfmember.org/civicrm/contribute/transact?reset=1&id=20>

## Links

-----

- \* Website: <https://www.palletsprojects.com/p/markupsafe/>
- \* Documentation: <https://markupsafe.palletsprojects.com/>
- \* License: `BSD <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`\_`
- \* Releases: <https://pypi.org/project/MarkupSafe/>
- \* Code: <https://github.com/pallets/markupsafe>
- \*

Issue tracker: <https://github.com/pallets/markupsafe/issues>

- \* Test status:
  - \* Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
  - \* Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- \* Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet

:: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7,!<3.0.\*,!=3.1.\*,!=3.2.\*,!=3.3.\*

Found in path(s):

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/MarkupSafe.egg-info/PKG-INFO

\* /opt/cola/permits/1128978950\_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/PKG-INFO

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/\*\*

\* markupsafe.\_speedups

\* ~~~~~

\*

\* C implementation of escaping for better performance. Used instead of

\* the native Python implementation when compiled.

\*

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## 1.179 init-system-helpers 1.57

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Files: debian/\*

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Files: script/service man8/service.rst

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# 1.180 httpcomponents-core 4.4.13

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```
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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/WeakHashtable.java  
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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

\*

/opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/Log.java
```

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

## 1.183 bcel 2.7.2

### 1.183.1 Available under license :

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*/
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```
/**
```

\* This is a special exception that is used to stop parsing when  
\* search for an element. For instance, when searching  
for xml:stylesheet  
\* PIs, it is used to stop the parse once the document element is found.  
\* @see StylesheetPIHandler  
\* @xsl.usage internal  
\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/StopParseException.java

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/QueuedEvents.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/NodeLocator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/MessageHandler.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/KeyIndex.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemForEach.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/patterns/ContextMatchStepPattern.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/res/XPATHErrorResources\_zh.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncBoolean.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/CurrentCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/When.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/WalkingIteratorSorted.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/templates/ElemWhen.java  
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/SerializerMessages\_ja.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/StylesheetPIHandler.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncSubstring.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/trax/TrAXFilter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncConcat.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/utils/SerializerMessages\_zh\_CN.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ko.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/Function.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/trax/XSLTCSOURCE.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/AttributeIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/utils/StringToIntTable.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/LoadDocument.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages\_hu.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh.java

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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/StringToStringTableVector.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/PrefixResolver.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_en.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/StringArrayWrapper.java

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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/transformer/KeyIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DOM2Helper.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/Hashtable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/UnionIterator.java  
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 jar/org/apache/xalan/xsltc/dom/NthIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Stylesheet.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_sk.java  
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 jar/org/apache/xalan/xsltc/compiler/XSLTC.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pt\_BR.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/dtm/ref/DTMNodeProxy.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ElemContext.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/XPathProcessorException.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh\_TW.java  
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 jar/org/apache/xml/Utils/res/XResources\_he.java  
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 jar/org/apache/xpath/functions/FuncRound.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/IntExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Fallback.java  
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 jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ja.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DOMOrder.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/LangCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionsTable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/res/CharArrayWrapper.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/CastExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/TransletException.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/StringBufferPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ToSAXHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorsResources\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_zh\_TW.java  
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 jar/org/apache/xml/serializer/utils/SerializerMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/AVTPartXPath.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ExtendedLexicalHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/WhiteSpaceInfo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/trace/EndSelectionEvent.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DupFilterIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/NodeIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java  
 \*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_ko.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanTransformState.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePseudo.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_es.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_hu.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_ru.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages\_pl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/ObjectPool.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/XMLString.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/WrappedRuntimeException.java  
\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_de.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ca.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_it.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AnccestorPattern.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/EqualityExpr.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_en.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildTestIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ForEach.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_de.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/ApplyImports.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/processor/ProcessorAttributeSet.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Quo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/dom3/DOMConstants.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/dtm/ref/ExpandedNameTable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/QName.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/transformer/TransformSnapshot.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/lib/sql/QueryParameter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_es.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/processor/ProcessorOutputElem.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Param.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_ru.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Number.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/res/XResources\_el.java



\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh\_CN.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh\_TW.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_de.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_fr.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/ObjectFactory.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_ja\_JP\_A.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_fr.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_cs.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMConfigurationException.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariable.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

```
jar/org/apache/xpath/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_sl.java
*
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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```

```
/*
```

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```

```
*/
```

```
/*
```

```
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
```

```
*/
```

```
package org.apache.xalan;
```

```
/**
```

```
* Administrative
class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
```

```

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+". "+getReleaseVersionNum()+". "

        +(getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (" "+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

```

```
/**
 * Major version number.
 * Version number. This changes only when there is a
 *   significant, externally apparent enhancement from
 *   the previous release. 'n' represents the n'th
 *   version.
 *
 *   Clients should carefully consider the implications
 *   of new versions as external interfaces and behaviour
 *
 *   may have changed.
 */
```

```
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

```
/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
```

```
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

```
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *   drop applied to a specific release and contains
 *   fixes for defects reported. It maintains compatibility
 *   with the release and contains no API changes.
 *   When missing, it designates the final and complete
 *   development drop for a release.
 */
```

```
public static int getMaintenanceVersionNum()
{
    return
@version.MINOR@;
}
```

```
/**
 * Development Drop Number.
```

\* Optional identifier designates development drop of  
 \* a specific release. D01 is the first development drop  
 \* of a new release.  
 \*  
 \* Development drops are works in progress towards a  
 \* completed, final release. A specific development drop  
 \* may not completely implement all aspects of a new  
 \* feature, which may take several development drops to  
 \* complete. At the point of the final drop for the  
 \* release, the D suffix will be omitted.  
 \*  
 \* Each 'D' drops can contain functional enhancements as  
 \* well as defect fixes. 'D' drops may not be as stable as  
 \* the final releases.  
 \*/

```
public static int getDevelopmentVersionNum()
{
  try {
    if ((new String("@version.DEVELOPER@")).length() == 0)
      return 0;
    else
      return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
    return 0;
  }
}
```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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```
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```

```

*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

    /**
     * Get the basic version string for the current Serializer.
     * Version String formatted like
     * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
            +(getDevelopmentVersionNum() > 0) ?
                ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
    }

    /**
     * Print the processor version to the command
     line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(getVersion());
    }

    /**
     * Name of product: Serializer.
     */
}

```

```

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This
changes when:
 * - a new set of functionality is to be added, eg,
 * implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance

```

```

* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development
drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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\*/  
// Proprietary  
/\*\* The 'document-location()' id (Proprietary). \*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/compiler/FunctionTable.java

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\*/  
/\*\*

\* Major version number.  
\* Version number. This changes only when there is a  
\* significant, externally apparent  
enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider the implications  
\* of new versions as external interfaces and behaviour  
\* may have changed.  
\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/processor/XSLProcessorVersion.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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```

* limitations under the License.
*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
}

```

```

private String _expression;

/**
 * Line number where this expression/pattern
was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xslt = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}

/**
 * This
method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also

```

```

* differs in the way it handles "{uri}:" and "{uri}:@". The last two
* patterns are expanded as "[namespace-uri() = 'uri']" and
* "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
* simplifies the grouping of patterns in the Mode class. For this
* expansion to be correct, the priority of the pattern/template must be
* set to -0.25 (when no other predicates are present).
*/
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("")) ? -1
: _xsltC.registerNamespacePrefix(name);
    }
    else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("") || local.equals("@*"))) {
    if (predicates == null) {
predicates = new Vector(2);
    }

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

    predicates.add(
new Predicate(
    new EqualityExpr(Operators.EQ,

```

```

    new NamespaceUriCall(namespace_uri),
    new LiteralExpr(uri)))));
}

if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
}
else if (test instanceof Integer) {
    return ((Integer)test).intValue();
}
else {
    QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
return (name.toString().equals("*"))
? -1
: _xsltc.registerNamespacePrefix(name);
}

if (name.getNamespace() == null) {

```

```

final String local = name.getLocalPart();

if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {

```

```

    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
    return(result);
    else
    return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR,
error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
_expression);
_parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
// empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
final ParentLocationPath plp = (ParentLocationPath) rlp;
final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
return new ParentLocationPath(newrlp, plp.getStep());
}
else {
addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
return rlp;
}
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant
result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

```



:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;  
terminal DOLLAR, ATSIGN;  
terminal DDOT, DCOLON, DSLASH;  
terminal EQ, NE;  
terminal LT, GT, LE, GE;  
terminal PLUS, MINUS, DIV, MOD, MULT;  
terminal String Literal;  
terminal String QName;  
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;  
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;  
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;  
terminal Double REAL;  
terminal Long INT;  
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;  
non terminal Expression Predicate, FilterExpr, Step;  
non  
terminal Expression OrExpr, AndExpr, EqualityExpr;  
non terminal Expression RelationalExpr, AdditiveExpr;  
non terminal Expression MultiplicativeExpr, UnaryExpr;  
non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal  
Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;

precedence left OR;

precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{: RESULT = pattern; :}

| EXPRESSION Expr:expr

{: RESULT = expr; :};

/\* ----- Patterns ----- \*/

Pattern ::= LocationPathPattern:lpp

{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p

{: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH

{: RESULT = new AbsolutePathPattern(null); :}

| SLASH RelativePathPattern:rpp

{: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern:ikp

{: RESULT = ikp; :}

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp

{: RESULT = new ParentPattern(ikp, rpp); :}

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp

{: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern:rpp

{: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern:rpp

{: RESULT = rpp; :};

```

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
    : }

    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    { : RESULT = new KeyPattern(l1, l2); : };

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    { : RESULT = new ProcessingInstructionPattern(l); : };

RelativePathPattern ::= StepPattern:sp
    { : RESULT = sp; : }

    | StepPattern:sp SLASH RelativePathPattern:rpp
    { : RESULT
= new ParentPattern(sp, rpp); : }

    | StepPattern:sp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(sp, rpp); : };

StepPattern ::= NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
    : }

    | NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
    : }

    | ProcessingInstructionPattern:pip
    { : RESULT = pip; : }

    | ProcessingInstructionPattern:pip Predicates:pp
    { : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : }

    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    : }

    | ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
    : }

```

```
    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    { :
    RESULT = pip; // TODO: report error if axis is attribute
    : }
```

```
    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
    { :
    // TODO: report error if axis is attribute
    RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    : };
```

```
NodeTestPattern ::= NameTestPattern:nt
    { : RESULT = nt; : }
```

```
    | NODE
    { : RESULT = new Integer(NodeTest.ANODE); : }
```

```
    | TEXT
    { : RESULT = new Integer(NodeTest.TEXT); : }
```

```
    | COMMENT
    { : RESULT = new Integer(NodeTest.COMMENT); : }
```

```
    | PI
    { : RESULT = new Integer(NodeTest.PI); : };
```

```
NameTestPattern ::= STAR
    { : RESULT = null; : }
```

```
    | QName:qn
    { : RESULT = qn; : };
```

```
ChildOrAttributeAxisSpecifier ::= ATSIGN
```

```
    { : RESULT = new Integer(Axis.ATTRIBUTE); : }
```

```
    | CHILD DCOLON
    { : RESULT = new Integer(Axis.CHILD); : }
```

```
    | ATTRIBUTE DCOLON
    { : RESULT = new Integer(Axis.ATTRIBUTE); : };
```

```
Predicates ::= Predicate:p
    { :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
```

```

:}

| Predicate:p Predicates:pp
{: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::= LBRACK Expr:e RBRACK
{:
RESULT = new Predicate(e);
:};

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
{: RESULT = ex; :};

OrExpr ::= AndExpr:ae
{: RESULT = ae; :}

| OrExpr:oe OR AndExpr:ae
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
{: RESULT = e; :}

| AndExpr:ae AND EqualityExpr:ee
{: RESULT = new LogicalExpr(LogicalExpr.AND,
ae, ee); :};

EqualityExpr ::= RelationalExpr:re
{: RESULT = re; :}

| EqualityExpr:ee EQ RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

| EqualityExpr:ee NE RelationalExpr:re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

```

| RelationalExpr:re GE AdditiveExpr:ae  
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me  
{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me  
{: RESULT = new BinOpExpr(BinOpExpr.PLUS,  
ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me  
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue  
{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue  
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue  
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue  
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue  
{: RESULT = ue; :}

| MINUS UnaryExpr:ue  
{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe  
{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest  
{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp  
{: RESULT = lp; :}

| FilterExpr:fexp  
{: RESULT = fexp; :}

| FilterExpr:fexp

SLASH RelativeLocationPath:rlp  
{: RESULT = new FilterParentPath(fexp, rlp); :}

```

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{:
  //
  // Expand '/' into '/descendant-or-self::node()' or
  // into '/descendant-or-self::*'
  //
  int nodeType = DOM.NO_TYPE;
  if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
  {
    nodeType = DTM.ELEMENT_NODE;
  }
  final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
  FilterParentPath fpp = new FilterParentPath(fexp, step);
  fpp = new FilterParentPath(fpp, rlp);
  if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
  }
  RESULT = fpp;
:};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT
= step; :}

| RelativeLocationPath:rlp SLASH Step:step
{:
  if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step;    // Remove '/' from the middle
  }
  else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;    // Remove '/' from the end
  }
  else {
    RESULT =
      new ParentLocationPath((RelativeLocationPath) rlp, step);
  }
:};

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

```

```

AbsolutePath ::= SLASH
  { : RESULT = new AbsoluteLocationPath(); : }

  | SLASH RelativeLocationPath:rlp
  { : RESULT = new AbsoluteLocationPath(rlp); : }

  | AbbreviatedAbsolutePath:aalp
  { : RESULT = aalp; : };

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
  { :
  final Step right = (Step)step;
  final
int axis = right.getAxis();
  final int type = right.getNodeType();
  final Vector predicates = right.getPredicates();

  if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress '//child:E' into 'descendant::E' - if possible
    if (predicates == null) {
      right.setAxis(Axis.DESCENDANT);
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        RESULT = right;
      }
      else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
      }
    }
    else {
      // Expand '//step' -> 'descendant-or-self::*/*step'
      if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

        Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
      }
      else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
      }
    }
  }
}

```



```

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);

    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp

```

{:
    //
    // Expand '/' into '/descendant-or-self::node()/' or
    // into '/descendant-or-self::*/'
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
};

```

Step ::= NodeTest:ntest

```

{:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest),
            null);
    }
}

```

```

:}

| NodeTest:ntest Predicates:pp
{:
  if (ntest instanceof Step) {
    Step step = (Step)ntest;
    step.addPredicates(pp);
    RESULT = (Step)ntest;
  }
  else {
    RESULT = new Step(Axis.CHILD,
      parser.findNodeType(Axis.CHILD, ntest), pp);
  }
:}

```

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp
{: RESULT = new Step(axis.intValue(),
  parser.findNodeType(axis.intValue(), ntest),
  pp);
:}

```

```

| AxisSpecifier:axis NodeTest:ntest
{: RESULT = new Step(axis.intValue(),
  parser.findNodeType(axis.intValue(), ntest),
  null);
:}

```

```

| AbbreviatedStep:abbrev
{: RESULT = abbrev; :};

```

```

AxisSpecifier ::= AxisName:an DCOLON
  {: RESULT = an; :}

```

```

| ATSIGN
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

```

```

AxisName ::= ANCESTOR
  {: RESULT = new Integer(Axis.ANCESTOR); :}

```

```

| ANCESTORORSELF
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

```

```

| ATTRIBUTE
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

```

```

| CHILD
{: RESULT = new Integer(Axis.CHILD); :}

```

```

| DESCENDANT
{: RESULT = new Integer(Axis.DECENDANT); ;}

| DESCENDANTORSELF
{: RESULT = new Integer(Axis.DECENDANTORSELF); ;}

| FOLLOWING
{: RESULT = new
Integer(Axis.FOLLOWING); ;}

| FOLLOWINGSIBLING
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); ;}

| NAMESPACE
{: RESULT = new Integer(Axis.NAMESPACE); ;}

| PARENT
{: RESULT = new Integer(Axis.PARENT); ;}

| PRECEDING
{: RESULT = new Integer(Axis.PRECEDING); ;}

| PRECEDINGSIBLING
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); ;}

| SELF
{: RESULT = new Integer(Axis.SELF); ;};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); ;}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); ;};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; ;}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); ;};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; ;}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; ;}

| Literal:string
{:

```

```

/*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
:}

| INT:num
{:
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
    }
    else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
            RESULT = new IntExpr(num.intValue());

        else if (num.doubleValue() == 0.0)
            RESULT = new RealExpr(num.doubleValue());
        else
            RESULT = new IntExpr(num.intValue());
    }
:}

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{:
    // An empty qname prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

```

```

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    }
    else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    }
    else {
        RESULT = new UnresolvedRef(varName);
    }
}

if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
:};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    }
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }
}

```

```

}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {

```

```

    RESULT = new FormatNumberCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
    RESULT = new ElementAvailableCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, arg1);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {

```

```

    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
    else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
    else {
    RESULT = new FunctionCall(fname, argl);
}
:};

```

NonemptyArgumentList

```

::= Argument:arg
    {:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
    :}

| Argument:arg COMMA NonemptyArgumentList:argl
    {: argl.insertElementAt(arg, 0); RESULT = argl; :};

```

FunctionName ::= QName:fname

```

    {:
    RESULT = fname;
    :};

```

VariableName ::= QName:vname

```

    {:
    RESULT = vname;
    :};

```

Argument ::= Expr:ex

```

    {: RESULT = ex; :};

```

NodeTest ::= NameTest:nt

```

    {: RESULT = nt; :}

```

| NODE

```

    {: RESULT = new Integer(NodeTest.ANODE); :}

```

| TEXT

```

    {: RESULT = new Integer(NodeTest.TEXT); :}

```

| COMMENT

```

    {: RESULT = new Integer(NodeTest.COMMENT); :}

```



```

| PIPARAM LPAREN Literal:l RPAREN
{:
  QName name = parser.getQNameIgnoreDefaultNs("name");
  Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
  Vector predicates = new Vector();
  predicates.addElement(new Predicate(exp));
  RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

```

```

| PI
{: RESULT = new Integer(NodeTest.PI); :};

```

```

NameTest ::= STAR
  {: RESULT = null; :}

```

```

  | QName:qn
  {: RESULT = qn; :};

```

```

QName ::= QNAME:qname
  {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

```

```

| DIV
  {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

```

```

| MOD
  {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

```

```

| KEY
  {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

```

```

| ANCESTOR
  {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

```

```

| ANCESTORORSELF
  {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

```

```

| ATTRIBUTE
  {: RESULT
= parser.getQNameIgnoreDefaultNs("attribute"); :}

```

```

| CHILD
  {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

```

```

| DESCENDANT
  {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

```

| DESCENDANTORSELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE  
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT  
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID  
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_text.properties

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
```

```
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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```

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*
```

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\*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/ToHTMLStream.java

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Found in path(s):

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jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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Found in path(s):

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html  
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\*/

```
/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */
```

Found in path(s):

```
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.
```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
```

```
*/
```

```
/*
 * $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
 */
```

```
package org.apache.xalan.processor;
```

```
/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
```

```
public class XSLProcessorVersion
{
```

```
/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
```

```

public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 *   significant, externally apparent enhancement from
 *   the previous release. 'n' represents the n'th
 *   version.
 *
 *   Clients should carefully consider
the implications
 *   of new versions as external interfaces and behaviour
 *   may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *   drop applied to a specific release and contains
 *   fixes for defects reported. It maintains compatibility
 *   with the release and contains no API changes.
 *   When missing, it designates the final and complete
 *   development drop for a release.
 */

```

```

public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd] <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
 * identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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 *

```



```

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* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

```

```
package org.apache.xalan.xsltc.compiler;
```

```

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
    }

    /**
     * If symbol is not followed by ':' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
        // Peek in the input buffer without changing the internal state
        int index = yy_buffer_index;

```

```

// Skip whitespace
while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
    index++;
}

// If end of buffer, can't disambiguate :(

if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is ':' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
        yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:

```

```

        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:

case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
        }
        return newSymbol(sym.MULT);
    }

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

```

```

}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new
Symbol(ss, value);
}
% }

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{|Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-

```

\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName={({Letter})|"\_"}|\_{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-|\_|\_{CombiningChar}|{Extender}|{NCNameStartChar}|  
[\u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\u0D7FF\uF900-\uFDFF\uFDF0-\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"\*" { return disambiguateStar(); }  
"/" { return newSymbol(sym.SLASH); }  
"+" { return newSymbol(sym.PLUS); }  
"- " { return newSymbol(sym.MINUS); }  
"div" { return disambiguateOperator(sym.DIV); }  
"mod" { return disambiguateOperator(sym.MOD); }

```

"::"      { return newSymbol(sym.DCOLON); }
","      { return newSymbol(sym.COMMA); }
"@       { return newSymbol(sym.ATSIGN); }
"..     { return newSymbol(sym.DDOT); }
"|"     { return newSymbol(sym.VBAR); }
"$       { return newSymbol(sym.DOLLAR); }
"//"     { return newSymbol(sym.DSLASH); }
"="     { return newSymbol(sym.EQ); }
"!="    { return newSymbol(sym.NE); }
"<"     { return newSymbol(sym.LT); }
">"     { return newSymbol(sym.GT); }
"<="   { return newSymbol(sym.LE); }
">="   { return newSymbol(sym.GE); }
"id"     { return disambiguateAxisOrFunction(sym.ID); }
"key"    { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"     { return disambiguateOperator(sym.OR); }
"and"    { return disambiguateOperator(sym.AND); }
"child"  { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }

```

```

\[^\"]*\\"      { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\[^\']*\"      { return newSymbol(sym.Literal,
    yytext().substring(1,
    yytext().length() - 1)); }
{Digit}+      { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\".\"{Digit})*? { return newSymbol(sym.REAL, new Double(yytext())); }
\".\"{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
\".\"         { return newSymbol(sym.DOT); }
({NCName}\"::\")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}\"::\")?\"*\"     { return newSymbol(sym.QNAME, yytext()); }
({NCName}\"::\")?\"@*\"     { return newSymbol(sym.QNAME, yytext()); }
[\\t\\r\\n\\f] { /* ignore white space. */ }
.             { throw new Exception(yytext()); }

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex

```

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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java

```

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# 1.185 jakarta-annotation-api 1.3.4

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## ## Source Code

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\* <https://github.com/eclipse-ee4j/common-annotations-api>

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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java

\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java

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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ByteMemberValue.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValue.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValueVisitor.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/FactoryHelper.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SecurityActions.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteStream.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformCall.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

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jar/javassist/bytecode/stackmap/BasicBlock.java
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jar/javassist/bytecode/CodeAnalyzer.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/convert/TransformNewClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

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jar/javassist/compiler/ast/Visitor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtMember.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/ByteArray.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Cast.java
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jar/javassist/util/proxy/ProxyFactory.java
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jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassClassPath.java
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jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/convert/TransformReadField.java
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/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/stackmap/TypeData.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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jar/javassist/NotFoundException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtField.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Translator.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Pair.java  
\*  
/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Sample.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/MethodHandler.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtConstructor.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationsWriter.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewNestedClass.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Member.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/Proxy.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPool.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Executor.java  
\*  
/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteRef.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/MultiArrayType.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFile.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AttributeInfo.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/RuntimeSupport.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/FieldInfo.java



\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/FieldAccess.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/BinExpr.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SymbolTable.java  
\*  
/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Handler.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/BadBytecode.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Lex.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Webserver.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/Proxy.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InstructionPrinter.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/SubroutineScanner.java  
\*  
/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewWrappedConstructor.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ByteArrayClassPath.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtBehavior.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionTable.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/ClassMetaobject.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ProceedHandler.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewArray.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SourceFileAttribute.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/MapMaker.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectOutputStream.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAccessArrayField.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Viewer.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

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jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/KeywordTable.java
*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/Loader.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/tools/rmi/ObjectImporter.java
*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/compiler/ast/InstanceOfExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewExpr.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/ExprEditor.java
*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPath.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtClassType.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

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jar/javassist/tools/reflect/Compiler.java  
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jar/javassist/bytecode/LongVector.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/ast/FieldDecl.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/tools/web/BadHttpRequest.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/CtNewConstructor.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/ast/CastExpr.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Javac.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/SerialVersionUID.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/MethodInfo.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/tools/reflect/Metaobject.java  
\*  
/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/convert/TransformAfter.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/Descriptor.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/ast/CallExpr.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/ast/IntConst.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/AnnotationDefaultAttribute.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/convert/TransformBefore.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/JvstTypeChecker.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/LoaderClassPath.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/ParameterAnnotationsAttribute.java  
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jar/javassist/compiler/ast/Variable.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewMethod.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/compiler/ast/ASTree.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-  
jar/javassist/bytecode/Mnemonic.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-

jar/javassist/bytecode/ExceptionsAttribute.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CondExpr.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java  
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/opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java  
\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java  
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\* /opt/cola/permits/1135864419\_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java

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# 1.188 zap 1.15.0

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# 1.189 jakarta-validation-api 2.0.2

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```
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 *
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 */
```

Found in path(s):

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/UnexpectedTypeException.java  
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jar/javax/validation/ConstraintDefinitionException.java  
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jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java  
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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraintvalidation/package-info.java  
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jar/javax/validation/Path.java  
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jar/javax/validation/executable/package-info.java

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 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java  
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 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java  
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 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java  
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 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java  
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 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java  
 \* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java  
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/ValidatorFactory.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/constraints/package-info.java
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jar/javax/validation/GroupSequence.java
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jar/javax/validation/constraints/Negative.java
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jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/OverridesAttribute.java
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jar/javax/validation/spi/BootstrapState.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java  
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/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java  
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~

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

# 1.190 javax-ws-rs-api 2.0

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# 1.191 commons-codec 1.15

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# 1.192 jakarta-ws-rs-api 2.1.5

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Found in path(s):

\* /opt/cola/permits/1137148391\_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-  
gz/mod\_authnz\_external-3.3.2/mod\_authnz\_external.c

# 1.202 libapache2-mod-authz-unixgroup 1.1.0-0.1

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# 1.204 visual-studio-runtime 14.00.24210.0

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# 1.206 man-pages 5.05-1

## 1.206.1 Available under license :

```
#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
# cd man-pages-x.yy
# sh find_dots_no_parens.sh . man?/*.* > matches.log
#
#####
#
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## 1.207 python-idna 2.8-1

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Found in path(s):

```
* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/LICENSE.rst
```

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
```

```

'Intended Audience :: Developers',
'Intended Audience :: System Administrators',
'License :: OSI Approved :: BSD License',
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```
setup(**arguments)
```

```
if __name__ == '__main__':
    main()
```

Found in path(s):

\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

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Metadata-Version: 1.2

Name: idna

Version: 2.8

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: [kim@cynosure.com.au](mailto:kim@cynosure.com.au)

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

```
=====
```

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`\_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`\_.

This acts as a suitable replacement for the “encodings.idna” module that

comes with the Python standard library,  
but only supports the  
old, deprecated IDNA specification (RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`\_).

Basic functions are simply executed:

```
.. code-block:: pycon

# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

# Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.
```

## Packages

-----

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg
:target: http://badge.fury.io/py/idna
```

## Installation

-----

To install this library,  
you can use pip:

```
.. code-block:: bash

$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash

$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

## Usage

-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
```

You may use the codec encoding and decoding methods using the `idna.codec` module:

```
.. code-block:: pycon
```

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
```

Conversions can be applied at a per-label basis using the `ulabel` or `alabel` functions if necessary:

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

## Compatibility Mapping (UTS #46)

+++++

As described in [RFC 5895](http://tools.ietf.org/html/rfc5895) <<http://tools.ietf.org/html/rfc5895>>, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing` <http://unicode.org/reports/tr46/>, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as \*LATIN CAPITAL LETTER K\* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

```
.. code-block:: pycon
```

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen
```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the \*LATIN SMALL LETTER SHARP S\* (ß) was converted into two \*LATIN SMALL LETTER S\* (ss), whereas in the current IDNA specification this conversion is not performed.

```
.. code-block:: pycon
```

```
# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'
```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```
``encodings.idna`` Compatibility
+++++
```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

## Exceptions

-----

All errors raised during the conversion following the specification should raise an exception derived from the `idna.IDNAError` base class.

More specific exceptions that may be generated as `idna.IDNABidiError` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; `idna.InvalidCodepoint` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and `idna.InvalidCodepointContext` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

## Building and Diagnostics

-----

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

\* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables used for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

\* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

\* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work

in Python 2.7.

Testing

-----

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>` \_.

The tests are run automatically on each commit at Travis CI:

```
.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language

:: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

\* /opt/cola/permits/1138607654\_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO

# 1.208 alsa-topology-conf 1.2.2-1

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## 1.209 chardet 3.0.4-4build1

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Any executables

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/\* checkTag : validation tool for libzstd

\* command :

\* \$ ./checkTag tag

\* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any }

\* The tag is then compared to zstd version number.

\* They are compatible if first 3 digits are identical.

\* Anything beyond that is free, and doesn't impact validation.

\* Example : tag v1.8.1.2 is compatible with version 1.8.1

\* When tag and version are not compatible, program exits with error code 1.

\* When they are compatible, it exists with a code 0.

\* checkTag is intended to be used in automated testing environment.

\*/

## 1.214 pcre 8.44

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PCRE2 LICENCE

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#### THE BASIC LIBRARY FUNCTIONS

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## 1.215 libtasn 4.16.0-2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: \*

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# 1.228 tacacs-plus 2.6

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# 1.229 python-pam 1.8.4

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# 1.230 tenacity 7.0.0

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## 1.232 urllib3 1.25.8

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
- \* Code review, PEP8 compliance, benchmark fix
  
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- \* IPv6 url support and test coverage
  
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- \* Corrected multipart behavior for params
  
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- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict

- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <<https://github.com/jschneier>>
- \* HTTPHeaderDict and associated tests and docs

- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
  - \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
  - \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
  - \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
  - \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
  - \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
  - \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
  - \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
  - \* App Engine environment tests.
  - \* Documentation re-write.
  
- \* John Krauss <<https://github.com/talos>>

- \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
- \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <<https://github.com/chripede>>
- \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <<https://github.com/jmoldow>>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
- \* Andy Caldwell <[andy.m.caldwell@googlemail.com](mailto:andy.m.caldwell@googlemail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme

- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite

- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.233 python-pip 20.0.2

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes

3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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- Wichert Akkerman, 2012/02/02

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes



2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member

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All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes

3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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History

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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Just configure this file as the SSLCACertificateFile.#

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	

yes				
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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## 1.235 msgpack 1.0.2

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## 1.237 zstd 1.4.1

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# 1.239 lz4 1.9.2-2ubuntu0.20.04.1

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Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

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lib/lz4frame\_static.h

lib/xxhash.c

lib/xxhash.h

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## 1.240 python-stdlib-extensions 3.8.10- Oubuntu1~20.04

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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py  
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# A grammar to describe tree matching patterns.

# Not shown here:

# - 'TOKEN' stands for any token (leaf node)

# - 'any' stands for any node (leaf or interior)

# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('| Alternative)\*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]  
| NAME [Details] [Repeater]  
| '(' Alternatives ')' [Repeater]  
| '[' Alternatives '']  
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '\*' | '+' | '{' NUMBER [, NUMBER] '}'

Details: '<' Alternatives '>'

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\*

/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt

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- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
- \* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-



extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_execfile.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_ne.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_has\_key.py  
\*  
/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_exec.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_map.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_xrange.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_xrange.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_buffer.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_dict.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_standarderror.py  
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extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_filter.py  
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\*  
/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_types.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist\_msi.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_msi.py  
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/opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist\_wininst.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwincompiler.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwincompiler.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py  
\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py  
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\* /opt/cola/permits/1168963812\_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py

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```
file.write('License: %s\n' % self.get_license())
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# 1.241 markupsafe 2.0.1

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## 1.242 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

### 1.242.1 Available under license :

/\* nettle-internal.c

Things that are used only by the testsuite and benchmark, and not included in the library.

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Upstream-Name: Nettle

Upstream-Contact: Niels Miller <nisse@lysator.liu.se>

Source: <http://www.lysator.liu.se/~nisse/nettle/>

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A list of the supported algorithms, their origins and licenses (from  
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.

#### AES

The implementation of the AES cipher (also known as rijndael) is  
written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and  
Niels Miller, Sparc assembler by Niels Miller. Released under the  
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#### ARCFOUR

The implementation of the ARCFOUR (also  
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#### ARCTWO

The implementation of the ARCTWO (also known as RC2) cipher is  
written by Nikos Mavroyanopoulos and modified by Werner Koch and  
Simon Josefsson. Released under the LGPL.

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#### BLOWFISH

The implementation of the BLOWFISH cipher is written by Werner  
Koch, copyright owned by the Free Software Foundation. Also hacked  
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## CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86\_64 by Niels Mller. Released under the LGPL.

## CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

## DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

## MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography Toolkit license (essentially public domain).

## MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

## MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain.

## SERPENT

The implementation of the SERPENT is based on the code in libgcrypt, copyright owned by the Free Software Foundation. Adapted to Nettle by Simon Josefsson and heavily modified by Niels Mller. Assembly for x86\_64 by Niels Mller. Released under the LGPL.

## SHA1

The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain. Assembler for x86 by Niels Mller, released under the LGPL.

## SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

## TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de

Rooij. Released under the LGPL.

RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

DSA

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Files: base64.h base64-meta.c

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Files: blowfish.h

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Files: camellia-table.c camellia-crypt-internal.c

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Files: sha\*

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Files: twofish\*

Copyright: 1999 Ruud de Rooij <ruud@debian.org>

1999 J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>

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Files: dsa2sexp.c

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Files: testsuite/des-compat-test.c

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# 1.243 activation-api 1.2.0

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## 1.244 commons-lang3 3.12.0

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

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[PCRE]

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in the testdata directory is not copyrighted and is in the public domain.

The basic library functions are written in C and are freestanding.

Also

included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

## THE BASIC LIBRARY FUNCTIONS

-----

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## PCRE JUST-IN-TIME COMPILATION SUPPORT

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[Misc  
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[zlib]

/\* zlib.h -- interface of  
the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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Jean-loup  
Gailly     Mark Adler  
jloup@gzip.org     madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for  
Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt>  
(zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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[dialyzer]

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[edoc, syntax\_tools]

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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# 1.257 distlib 0.3.3

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes

2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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## 1.261 jcmtturner-aescts 1.0.1

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# 1.263 jcmturner-dnsutils 1.0.1

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## 1.264 go-resiliency 1.2.0

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# 1.266 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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## 1.268 go-uber-org-multierr 1.5.0

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## 1.275 liggitt-tabwriter 0.0.0-20181228230101-89fcab3d43de

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## 1.276 gofuzz 1.1.0

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# 1.279 properties 1.8.5

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## 1.289 go-uber-org-multierr 1.7.0

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# 1.295 openzipkin-zipkin-go 0.2.5

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# 1.298 grpc-ecosystem-go-grpc-middleware

## 1.3.0

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## 1.299 zap 1.17.0

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## 1.300 xxhash 2.1.2

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## 1.301 go-openapi-swag 0.19.14

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# 1.305 sanitized-anchor-name 1.0.0

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## 1.308 google-go-cmp 0.5.5

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## 1.310 golang-glog 0.0.0-20160126235308-23def4e6c14b

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## 1.319 aec 1.0.0

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## 1.321 grpc-ecosystem-go-grpc-middleware

### 1.2.0

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0.20191024122315-48c9e1530131**

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## 1.336 go-errors-errors 1.2.0

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## 1.339 flag 1.7.4-pre

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## 1.340 golang-glog 0.0.0-20210429001901-424d2337a529

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## 1.341 gopkg.in-asn1-ber 1.0.0-20181015200546-f715ec2f112d

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## 1.344 go.uber.org/atomic 1.5.0

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## 1.345 lithammer-dedent 1.1.0

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# 1.346 fiorix-go-diameter 3.0.2+incompatible

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#

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#

# and do appropriate cleanups.

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David Wilkie <dwilkie@gmail.com>  
Seyi Ogunyemi <micrypt@users.noreply.github.com>  
Tapio <fitase@emblacom.com>  
jaroszan <jaroslaw.szangin@gmail.com>  
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# 1.347 ishidadawataru-sctp 0.0.0- 20210226210310-f2269e66cdee

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# 1.349 openzipkin-contrib-zipkin-go-opentracing 0.4.5

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# 1.352 eapache-channels 1.1.0

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## 1.353 monochromegane-go-gitignore 0.0.0-20200626010858-205db1a8cc00

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## 1.354 moby-spdystream 0.2.0

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## 1.356 goleak 1.1.10

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## 1.357 prometheus-procfs 0.0.11

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.358 clockwork 0.2.2

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Clockwork - a clock process to replace cron

=====

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.]([http://adam.heroku.com/past/2010/4/13/rethinking\\_cron/](http://adam.heroku.com/past/2010/4/13/rethinking_cron/))

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

-----

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

```
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
```

```
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queuing

-----

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queuing system, such as

[Delayed Job](<http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job>),

[Beanstalk/Stalker]([http://adam.heroku.com/past/2010/4/24/beanstalk\\_a\\_simple\\_and\\_fast\\_queueing\\_backend/](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/)),

[RabbitMQ/Minion]([http://adamblog.heroku.com/past/2009/9/28/background\\_jobs\\_with\\_rabbitmq\\_and\\_minion/](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/)),

or

[Resque](<http://github.com/blog/542-introducing-resque>). This design allows a simple clock process with no locks, but also offers

near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'
```

```
handler { |job| Stalker.enqueue(job) }
```

```
every(1.hour, 'feeds.refresh')
```

```
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queuing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
```

```
require 'config/environment'
```

```
every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
```

```
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file

-----

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly),

this

exposes a small DSL ("handler" and "every") to define the handler for events,

and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call `enqueue_your_job('thing.do')`.

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
every(5.minutes,
'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
every(1.day, 'check.leap.year') do
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production

-----

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

- \* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
- \* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process

running the same way you keep your web and workers running.

Meta

----

Created by Adam Wiggins

Inspired by [rufus-scheduler](<http://rufus.rubyforge.org/rufus-scheduler/>) and [<http://github.com/bvandenbos/resque-scheduler>]([resque-scheduler](http://github.com/bvandenbos/resque-scheduler))

Design

assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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Found in path(s):

\* /opt/cola/permits/1213082843\_1634008352.31/0/clockwork-0-2-2-1-gem/data-tar-gz/README.md

# 1.359 go-uber-org-multierr 1.4.0

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## 1.375 mitchellh-mapstructure 1.4.1

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cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
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lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
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lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
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lib/libgss/g\_process\_context.c  
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lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the

following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/iproprd\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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## 1.385 activation-api 1.1.1

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## 1.392 go-errors-errors 1.1.1

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## 1.394 k-sone-critbitgo 1.4.0

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## 1.395 rcrowley-go-metrics 0.0.0-20190706150252-9beb055b7962



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## 1.396 cheggaaa-pb 1.0.28

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## 1.397 go.etcd.io-bbolt 1.3.6

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## 1.398 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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## 1.399 python-pip 21.3.1

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$  
\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software

Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes

2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.406 modern-go-reflect2 1.0.2

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## 1.407 prometheus-procfs 0.7.1

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# 1.410 pyvmomi 7.0.3

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## 1.411 importlib-resources 5.4.0

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## 1.412 gls 4.20.0+incompatible

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gz/KhronosGroup-glslang-5798d23/SPIRV/bitutils.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/SPIRV/hex_float.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpAtom.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpTokens.h
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*
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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpTokens.cpp
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//  
  
/**  
 * This is bison grammar and productions for parsing all versions of the  
 * GLSL shading languages.  
 */  
% {  
  
/* Based on:  
ANSI C Yacc grammar
```

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a matching Lex specification) for the April 30, 1985 draft version of the ANSI C standard. Tom Stockfisch reposted it to net.sources in 1987; that original, as mentioned in the answer to question 17.25 of the comp.lang.c FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as possible; please let me know if you discover discrepancies.

Jutta Degener, 1995

\*/

```
#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"
```

```
using namespace glslang;
```

```
% }
```

```
%define parse.error verbose
```

```
%union {
  struct {
    glslang::TSourceLoc loc;
    union {
      glslang::TString *string;
      int i;
      unsigned int u;
      long long i64;
      unsigned long long u64;
      bool b;
      double d;
    };
    glslang::TSymbol* symbol;
  } lex;
  struct {
    glslang::TSourceLoc loc;
    glslang::TOperator op;
    union
  {
    TIntermNode* intermNode;
    glslang::TIntermNodePair nodePair;
    glslang::TIntermTyped* intermTypedNode;
    glslang::TAttributes* attributes;
```

```

};
union {
    gslang::TPublicType type;
    gslang::TFunction* function;
    gslang::TParameter param;
    gslang::TTypeLoc typeLine;
    gslang::TTypeList* typeList;
    gslang::TArraySizes* arraySizes;
    gslang::TIdentifierList* identifierList;
};
} interm;
}

%{

/* windows only pragma */
#ifdef _MSC_VER
    #pragma warning(disable : 4065)
    #pragma warning(disable : 4127)
    #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSTYPE*, TParseContext&);

%}

%parse-param {gslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser // enable thread safety
%expect 1 // One shift reduce
conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T
UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT
SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4
%token <lex> U32VEC2 U32VEC3 U32VEC4

```

```

%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 I8VEC3 I8VEC4
%token <lex> U8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%token <lex>
F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%token <lex> MAT2X2 MAT2X3 MAT2X4
%token <lex> MAT3X2 MAT3X3 MAT3X4
%token <lex> MAT4X2 MAT4X3 MAT4X4
%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%token <lex> ATOMIC_UINT

// combined image/sampler
%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW
SAMPLER2DSHADOW
%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
SAMPLER1DARRAYSHADOW
%token
<lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT
%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%token <lex> SAMPLEREXTERNALOES

```



```

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

//
pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D UTEXTURE3D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token
<lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY

```

```

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY

%token <lex> STRUCT VOID WHILE

%token <lex> IDENTIFIER TYPE_NAME
%token <lex> FLOATCONSTANT DOUBLECONSTANT INT16CONSTANT UINT16CONSTANT
INT32CONSTANT UINT32CONSTANT INTCONSTANT UINTCONSTANT INT64CONSTANT
UINT64CONSTANT
BOOLCONSTANT FLOAT16CONSTANT
%token <lex> LEFT_OP RIGHT_OP
%token <lex> INC_OP DEC_OP LE_OP GE_OP EQ_OP NE_OP
%token <lex> AND_OP OR_OP XOR_OP MUL_ASSIGN DIV_ASSIGN ADD_ASSIGN
%token <lex> MOD_ASSIGN LEFT_ASSIGN RIGHT_ASSIGN AND_ASSIGN XOR_ASSIGN OR_ASSIGN
%token <lex> SUB_ASSIGN

%token <lex> LEFT_PAREN RIGHT_PAREN LEFT_BRACKET RIGHT_BRACKET LEFT_BRACE
RIGHT_BRACE DOT
%token <lex> COMMA COLON EQUAL SEMICOLON BANG DASH TILDE PLUS STAR SLASH PERCENT
%token <lex> LEFT_ANGLE RIGHT_ANGLE VERTICAL_BAR CARET AMPERSAND QUESTION

%token <lex> INVARIANT PRECISE
%token <lex> HIGH_PRECISION MEDIUM_PRECISION LOW_PRECISION PRECISION

%token <lex> PACKED RESOURCE SUPERP

%type <interm> assignment_operator unary_operator
%type <interm.intermTypedNode> variable_identifier primary_expression postfix_expression
%type <interm.intermTypedNode> expression integer_expression assignment_expression
%type <interm.intermTypedNode> unary_expression multiplicative_expression additive_expression
%type <interm.intermTypedNode>
relational_expression equality_expression
%type <interm.intermTypedNode> conditional_expression constant_expression
%type <interm.intermTypedNode> logical_or_expression logical_xor_expression logical_and_expression
%type <interm.intermTypedNode> shift_expression and_expression exclusive_or_expression
inclusive_or_expression
%type <interm.intermTypedNode> function_call initializer initializer_list condition conditionopt

%type <interm.intermNode> translation_unit function_definition
%type <interm.intermNode> statement simple_statement
%type <interm.intermNode> statement_list switch_statement_list compound_statement
%type <interm.intermNode> declaration_statement selection_statement selection_statement_nonattributed
expression_statement
%type <interm.intermNode> switch_statement switch_statement_nonattributed case_label
%type <interm.intermNode> declaration external_declaration
%type <interm.intermNode> for_init_statement compound_statement_no_new_scope
%type <interm.nodePair>

```

```

selection_rest_statement for_rest_statement
%type <interm.intermNode> iteration_statement iteration_statement_nonattributed jump_statement
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function>
function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
: IDENTIFIER {
    $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
}
;

primary_expression
: variable_identifier {
    $$ = $1;
}
| INT32CONSTANT {
    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
}
| UINT32CONSTANT {

```

```

    parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INTCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.i,
$1.loc, true);
}
| UINTCONSTANT {
    parseContext.fullIntegerCheck($1.loc, "unsigned literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
}
| INT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
}
| UINT64CONSTANT {
    parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
    $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
}
| INT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
    $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
}
| UINT16CONSTANT {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
    $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
}
| FLOATCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
}
| DOUBLECONSTANT {
    parseContext.doubleCheck($1.loc, "double literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
}
| FLOAT16CONSTANT {
    parseContext.float16Check($1.loc, "half float literal");
    $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
}
| BOOLCONSTANT {
    $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
}
| LEFT_PAREN expression RIGHT_PAREN {
    $$ = $2;
    if ($$->getAsConstantUnion())
        $$->getAsConstantUnion()->setExpression();
}
;

```

```

postfix_expression
: primary_expression {
    $$ = $1;
}
| postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
    $$ = parseContext.handleBracketDereference($2.loc, $1, $3);
}
| function_call {
    $$ = $1;
}
| postfix_expression
DOT IDENTIFIER {
    $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
}
| postfix_expression INC_OP {
    parseContext.variableCheck($1);
    parseContext.IValueErrorCheck($2.loc, "++", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
}
| postfix_expression DEC_OP {
    parseContext.variableCheck($1);
    parseContext.IValueErrorCheck($2.loc, "--", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
}
;

```

```

integer_expression
: expression {
    parseContext.integerCheck($1, "[]");
    $$ = $1;
}
;

```

```

function_call
: function_call_or_method {
    $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
    delete $1.function;
}
;

```

```

function_call_or_method
: function_call_generic {
    $$ = $1;
}
;

```

```

function_call_generic
: function_call_header_with_parameters RIGHT_PAREN {

```

```

    $$ =
$1;
    $$loc = $2.loc;
}
| function_call_header_no_parameters RIGHT_PAREN {
    $$ = $1;
    $$loc = $2.loc;
}
;

function_call_header_no_parameters
: function_call_header VOID {
    $$ = $1;
}
| function_call_header {
    $$ = $1;
}
;

function_call_header_with_parameters
: function_call_header assignment_expression {
    TParameter param = { 0, new TType };
    param.type->shallowCopy($2->getType());
    $1.function->addParameter(param);
    $$function = $1.function;
    $$intermNode = $2;
}
| function_call_header_with_parameters COMMA assignment_expression {
    TParameter param = { 0, new TType };
    param.type->shallowCopy($3->getType());
    $1.function->addParameter(param);
    $$function = $1.function;
    $$intermNode = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
}
;

function_call_header
: function_identifier LEFT_PAREN {

    $$ = $1;
}
;

// Grammar Note: Constructors look like functions, but are recognized as types.

function_identifier
: type_specifier {
    // Constructor

```

```

    $$intermNode = 0;
    $$function = parseContext.handleConstructorCall($1.loc, $1);
}
| postfix_expression {
    //
    // Should be a method or subroutine call, but we haven't recognized the arguments yet.
    //
    $$function = 0;
    $$intermNode = 0;

    TIntermMethod* method = $1->getAsMethodNode();
    if (method) {
        $$function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
        $$intermNode = method->getObject();
    } else {
        TIntermSymbol* symbol = $1->getAsSymbolNode();
        if (symbol) {
            parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
            TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
            $$function
= function;
        } else
            parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
        }

    if ($$function == 0) {
        // error recover
        TString empty("");
        $$function = new TFunction(&empty, TType(EbtVoid), EOpNull);
    }
}
;

unary_expression
: postfix_expression {
    parseContext.variableCheck($1);
    $$ = $1;
    if (TIntermMethod* method = $1->getAsMethodNode())
        parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
}
| INC_OP unary_expression {
    parseContext.IValueErrorCheck($1.loc, "+", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "+", EOpPreIncrement, $2);
}
| DEC_OP unary_expression {
    parseContext.IValueErrorCheck($1.loc, "-", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "-", EOpPreDecrement, $2);
}

```

```

| unary_operator unary_expression
{
    if ($1.op != EOpNull) {
        char errorOp[2] = {0, 0};
        switch($1.op) {
            case EOpNegative: errorOp[0] = '-'; break;
            case EOpLogicalNot: errorOp[0] = '!'; break;
            case EOpBitwiseNot: errorOp[0] = '~'; break;
            default: break; // some compilers want this
        }
        $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
    } else {
        $$ = $2;
        if ($$->getAsConstantUnion())
            $$->getAsConstantUnion()->setExpression();
    }
}
;
// Grammar Note: No traditional style type casts.

```

```

unary_operator
: PLUS { $$loc = $1.loc; $.op = EOpNull; }
| DASH { $$loc = $1.loc; $.op = EOpNegative; }
| BANG { $$loc = $1.loc; $.op = EOpLogicalNot; }
| TILDE { $$loc = $1.loc; $.op = EOpBitwiseNot;
          parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
;
// Grammar Note: No '*' or '&' unary ops. Pointers are not
supported.

```

```

multiplicative_expression
: unary_expression { $$ = $1; }
| multiplicative_expression STAR unary_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "*", EOpMul, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
| multiplicative_expression SLASH unary_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
| multiplicative_expression PERCENT unary_expression {
    parseContext.fullIntegerCheck($2.loc, "%");
    $$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
    if ($$ == 0)
        $$ = $1;
}

```



;

#### additive\_expression

```
: multiplicative_expression { $$ = $1; }
| additive_expression PLUS multiplicative_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
| additive_expression DASH multiplicative_expression {
    $$ = parseContext.handleBinaryMath($2.loc,
"-", EOpSub, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;
```

#### shift\_expression

```
: additive_expression { $$ = $1; }
| shift_expression LEFT_OP additive_expression {
    parseContext.fullIntegerCheck($2.loc, "bit shift left");
    $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
| shift_expression RIGHT_OP additive_expression {
    parseContext.fullIntegerCheck($2.loc, "bit shift right");
    $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;
```

#### relational\_expression

```
: shift_expression { $$ = $1; }
| relational_expression LEFT_ANGLE shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression RIGHT_ANGLE shift_expression
{
    $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression LE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "<=", EOpLessThanEqual, $1, $3);
```

```

    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| relational_expression GE_OP shift_expression {
    $$ = parseContext.handleBinaryMath($2.loc, ">=", EOpGreaterThanOrEqualTo, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

equality_expression
: relational_expression { $$ = $1; }
| equality_expression EQ_OP relational_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
    parseContext.opaqueCheck($2.loc, $1->getType(), "==");
    parseContext.specializationCheck($2.loc,
$1->getType(), "==");
    $$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
| equality_expression NE_OP relational_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
    parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
    parseContext.specializationCheck($2.loc, $1->getType(), "!=");
    $$ = parseContext.handleBinaryMath($2.loc, "!=", EOpNotEqual, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

and_expression
: equality_expression { $$ = $1; }
| and_expression AMPERSAND equality_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise and");
    $$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

exclusive_or_expression
: and_expression
{ $$ = $1; }
| exclusive_or_expression CARET and_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
    $$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
    if ($$ == 0)

```

```

    $$ = $1;
}
;

inclusive_or_expression
: exclusive_or_expression { $$ = $1; }
| inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
    parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
    $$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
    if ($$ == 0)
        $$ = $1;
}
;

logical_and_expression
: inclusive_or_expression { $$ = $1; }
| logical_and_expression AND_OP inclusive_or_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

logical_xor_expression
: logical_and_expression { $$
= $1; }
| logical_xor_expression XOR_OP logical_and_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "^", EOpLogicalXor, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

logical_or_expression
: logical_xor_expression { $$ = $1; }
| logical_or_expression OR_OP logical_xor_expression {
    $$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
    if ($$ == 0)
        $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
}
;

conditional_expression
: logical_or_expression { $$ = $1; }
| logical_or_expression QUESTION {
    ++parseContext.controlFlowNestingLevel;
}
expression COLON assignment_expression {

```

```

--parseContext.controlFlowNestingLevel;
parseContext.boolCheck($2.loc, $1);
parseContext.rValueErrorCheck($2.loc, "?", $1);
parseContext.rValueErrorCheck($5.loc, ":", $4);
parseContext.rValueErrorCheck($5.loc,
":", $6);
$$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
if ($$ == 0) {
    parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
    $$ = $6;
}
}
;

```

#### assignment\_expression

```

: conditional_expression { $$ = $1; }
| unary_expression assignment_operator assignment_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
    parseContext.opaqueCheck($2.loc, $1->getType(), "=");
    parseContext.specializationCheck($2.loc, $1->getType(), "=");
    parseContext.IValueErrorCheck($2.loc, "assign", $1);
    parseContext.rValueErrorCheck($2.loc, "assign", $3);
    $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
    if ($$ == 0) {
        parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
        $$ = $1;
    }
}
;

```

#### assignment\_operator

```

: EQUAL {
    $$loc = $1.loc;
    $$op = EOpAssign;
}
| MUL_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpMulAssign;
}
| DIV_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpDivAssign;
}
| MOD_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "%=");
    $$loc = $1.loc;
    $$op = EOpModAssign;
}

```

```

| ADD_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpAddAssign;
}
| SUB_ASSIGN {
    $$loc = $1.loc;
    $$op = EOpSubAssign;
}
| LEFT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
    $$loc = $1.loc; $$op = EOpLeftShiftAssign;
}
| RIGHT_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
    $$loc = $1.loc; $$op = EOpRightShiftAssign;
}
| AND_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
    $$loc = $1.loc; $$op = EOpAndAssign;
}
| XOR_ASSIGN
{
    parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
    $$loc = $1.loc; $$op = EOpExclusiveOrAssign;
}
| OR_ASSIGN {
    parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
    $$loc = $1.loc; $$op = EOpInclusiveOrAssign;
}
;

expression
: assignment_expression {
    $$ = $1;
}
| expression COMMA assignment_expression {
    parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
    $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
    if ($$ == 0) {
        parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
        $$ = $3;
    }
}
;

constant_expression
: conditional_expression {
    parseContext.constantValueCheck($1, "");
}

```

```

    $$ = $1;
}
;

declaration
: function_prototype SEMICOLON {
    parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
    $$ = 0;

// TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
}
| init_declarator_list SEMICOLON {
    if ($1.intermNode && $1.intermNode->getAsAggregate())
        $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
    $$ = $1.intermNode;
}
| PRECISION precision_qualifier type_specifier SEMICOLON {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

// lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
    parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
    parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
    $$ = 0;
}
| block_structure SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList);
    $$ = 0;
}
| block_structure IDENTIFIER SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
    $$ = 0;
}
| block_structure IDENTIFIER array_specifier SEMICOLON {
    parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
    $$ = 0;
}
| type_qualifier SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
    $$ = 0;
}
| type_qualifier IDENTIFIER SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
    $$ = 0;
}
| type_qualifier IDENTIFIER identifier_list SEMICOLON {
    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);

```

```
$3->push_back($2.string);
parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
$$ = 0;
}
;
```

block\_structure

```
: type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE
{
  --parseContext.structNestingLevel;
  parseContext.blockName = $2.string;
  parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
  parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
  parseContext.currentBlockQualifier = $1.qualifier;
  $$loc = $1.loc;
  $$typeList = $5;
}
```

identifier\_list

```
: COMMA IDENTIFIER {
  $$ = new TIdentifierList;
  $$->push_back($2.string);
}
| identifier_list COMMA IDENTIFIER {
  $$ = $1;
  $$->push_back($3.string);
}
;
```

function\_prototype

```
: function_declarator RIGHT_PAREN {
  $$function = $1;
  $$loc = $2.loc;
}
;
```

function\_declarator

```
: function_header {
  $$ = $1;
}
| function_header_with_parameters {
  $$ = $1;
}
;
```

function\_header\_with\_parameters

```

: function_header parameter_declaration {
    // Add the parameter
    $$ = $1;
    if ($2.param.type->getBasicType()
!= EbtVoid)
        $1->addParameter($2.param);
    else
        delete $2.param.type;
}
| function_header_with_parameters COMMA parameter_declaration {
    //
    // Only first parameter of one-parameter functions can be void
    // The check for named parameters not being void is done in parameter_declarator
    //
    if ($3.param.type->getBasicType() == EbtVoid) {
        //
        // This parameter > first is void
        //
        parseContext.error($2.loc, "cannot be an argument type except for '(void)', 'void', '');
        delete $3.param.type;
    } else {
        // Add the parameter
        $$ = $1;
        $1->addParameter($3.param);
    }
}
;

```

function\_header

```

: fully_specified_type IDENTIFIER LEFT_PAREN {
    if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
        parseContext.error($2.loc, "no qualifiers allowed for function return",
            GetStorageQualifierString($1.qualifier.storage, "");
    }
    if ($1.arraySizes)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

    // Add the function as a prototype after parsing it (we do not support recursion)
    TFunction *function;
    TType type($1);

    // Potentially rename shader entry point function. No-op most of the time.
    parseContext.renameShaderFunction($2.string);

    // Make the function
    function = new TFunction($2.string, type);
    $$ = function;
}

```



```

;

parameter_declarator
// Type + name
: type_specifier IDENTIFIER {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    if ($1.basicType ==
EbtVoid) {
        parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
    }
    parseContext.reservedErrorCheck($2.loc, *$2.string);

    TParameter param = {$2.string, new TType($1)};
    $$loc = $2.loc;
    $$param = param;
}
| type_specifier IDENTIFIER array_specifier {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

    parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
    parseContext.reservedErrorCheck($2.loc, *$2.string);

    TParameter param = { $2.string, new TType($1)};
    parseContext.arrayDimMerge(*param.type, $3.arraySizes);

    $$loc = $2.loc;

    $$param = param;
}
;

```

```

parameter_declaration
//
// With name
//
: type_qualifier parameter_declarator {
    $$ = $2;
    if ($1.qualifier.precision != EpqNone)
        $$param.type->getQualifier().precision = $1.qualifier.precision;
}
;

```

```

    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
    parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);

}
| parameter_declarator {
    $$ = $1;

    parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
    parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
//
// Without name
//
| type_qualifier
parameter_type_specifier {
    $$ = $2;
    if ($1.qualifier.precision != EpqNone)
        $$param.type->getQualifier().precision = $1.qualifier.precision;
    parseContext.precisionQualifierCheck($1.loc, $$param.type->getBasicType(), $$param.type->getQualifier());

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$param.type);
    parseContext.paramCheckFix($1.loc, $1.qualifier, *$$param.type);
}
| parameter_type_specifier {
    $$ = $1;

    parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
    parseContext.paramCheckFix($1.loc, EvqTemporary, *$$param.type);
    parseContext.precisionQualifierCheck($$.loc, $$param.type->getBasicType(), $$param.type->getQualifier());
}
;

parameter_type_specifier
: type_specifier {
    TParameter param = { 0, new TType($1) };
    $$param = param;
    if ($1.arraySizes)
        parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
}
;

init_declarator_list
: single_declaration {

```

```

    $$ = $1;
}
| init_declarator_list COMMA IDENTIFIER {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type);
}
| init_declarator_list COMMA IDENTIFIER array_specifier {
    $$ = $1;
    parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
}
| init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
    $$ .type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
    $$ .intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
}
| init_declarator_list COMMA IDENTIFIER EQUAL initializer {
    $$ .type = $1.type;
    TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
    $$ .intermNode = parseContext.intermediate.growAggregate($1.intermNode,
initNode, $4.loc);
}
;

single_declaration
: fully_specified_type {
    $$ .type = $1;
    $$ .intermNode = 0;
    parseContext.declareTypeDefaults($$.loc, $$ .type);
}
| fully_specified_type IDENTIFIER {
    $$ .type = $1;
    $$ .intermNode = 0;
    parseContext.declareVariable($2.loc, *$2.string, $1);
}
| fully_specified_type IDENTIFIER array_specifier {
    $$ .type = $1;
    $$ .intermNode = 0;
    parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
}
| fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
    $$ .type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
    $$ .intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
}
| fully_specified_type IDENTIFIER EQUAL initializer {
    $$ .type = $1;
    TIntermNode* initNode = parseContext.declareVariable($2.loc,

```

```

*$2.string, $1, 0, $4);
    $$intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
}

// Grammar Note: No 'enum', or 'typedef'.

fully_specified_type
: type_specifier {
    $$ = $1;

    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
    }

    parseContext.precisionQualifierCheck($$.loc, $$basicType, $$qualifier);
}
| type_qualifier type_specifier {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

    if ($2.arraySizes) {
        parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($2.loc,
EEsProfile, 300, 0, "arrayed type");
    }

    if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
        $2.arraySizes = 0;

    parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
    $2.shaderQualifiers.merge($1.shaderQualifiers);
    parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
    parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

    $$ = $2;

    if (! $$qualifier.isInterpolation() &&
        ((parseContext.language == EShLangVertex && $$qualifier.storage == EvqVaryingOut) ||
         (parseContext.language == EShLangFragment && $$qualifier.storage == EvqVaryingIn)))
        $$qualifier.smooth = true;
}
;

invariant_qualifier
: INVARIANT {
    parseContext.globalCheck($1.loc, "invariant");
}

```

```

    parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
    $$.$init($$.loc);
    $$.$qualifier.invariant
= true;
}
;

interpolation_qualifier
: SMOOTH {
    parseContext.globalCheck($$.loc, "smooth");
    parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "smooth");
    parseContext.profileRequires($$.loc, EEsProfile, 300, 0, "smooth");
    $$.$init($$.loc);
    $$.$qualifier.smooth = true;
}
| FLAT {
    parseContext.globalCheck($$.loc, "flat");
    parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "flat");
    parseContext.profileRequires($$.loc, EEsProfile, 300, 0, "flat");
    $$.$init($$.loc);
    $$.$qualifier.flat = true;
}
| NOPERSPECTIVE {
    parseContext.globalCheck($$.loc, "noperspective");
    parseContext.requireProfile($$.loc, ~EEsProfile, "noperspective");
    parseContext.profileRequires($$.loc, ENoProfile, 130, 0, "noperspective");
    $$.$init($$.loc);
    $$.$qualifier.nopersp = true;
}
| __EXPLICITINTERPAMD {
#ifdef AMD_EXTENSIONS
    parseContext.globalCheck($$.loc,
    "__explicitInterpAMD");
    parseContext.profileRequires($$.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter,
    "explicit interpolation");
    parseContext.profileRequires($$.loc, ECompatibilityProfile, 450,
    E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
    $$.$init($$.loc);
    $$.$qualifier.explicitInterp = true;
#endif
}
;

layout_qualifier
: LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
    $$ = $3;
}
;

```

```

layout_qualifier_id_list
: layout_qualifier_id {
    $$ = $1;
}
| layout_qualifier_id_list COMMA layout_qualifier_id {
    $$ = $1;
    $$.shaderQualifiers.merge($3.shaderQualifiers);
    parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
}

layout_qualifier_id
: IDENTIFIER {
    $$.$init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
}
| IDENTIFIER EQUAL constant_expression
{
    $$.$init($1.loc);
    parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
}
| SHARED { // because "shared" is both an identifier and a keyword
    $$.$init($1.loc);
    TString strShared("shared");
    parseContext.setLayoutQualifier($1.loc, $$, strShared);
}
;

precise_qualifier
: PRECISE {
    parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5,
"precise");
    parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
    $$.$init($1.loc);
    $$.$qualifier.noContraction = true;
}
;

type_qualifier
: single_type_qualifier {
    $$ = $1;
}
| type_qualifier single_type_qualifier {
    $$ = $1;
    if ($$.basicType == EbtVoid)
        $$.$basicType = $2.$basicType;

    $$.$shaderQualifiers.merge($2.$shaderQualifiers);
}

```

```

    parseContext.mergeQualifiers($$.loc, $$$.qualifier, $2.qualifier, false);
  }
;

single_type_qualifier
: storage_qualifier {
  $$ = $1;
}
| layout_qualifier {
  $$ = $1;
}
| precision_qualifier {
  parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
  $$ = $1;
}
| interpolation_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}
| invariant_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}
| precise_qualifier {
  // allow inheritance of storage qualifier from block declaration
  $$ = $1;
}
;

storage_qualifier
: CONST {
  $$$.init($1.loc);
  $$$.qualifier.storage = EvqConst; // will later turn into EvqConstReadOnly, if the initializer is not constant
}
| ATTRIBUTE {
  parseContext.requireStage($1.loc, EShLangVertex, "attribute");
  parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");

  parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
  parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
  parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

  parseContext.globalCheck($1.loc, "attribute");

  $$$.init($1.loc);
  $$$.qualifier.storage = EvqVaryingIn;
}
| VARYING {

```

```

parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

parseContext.globalCheck($1.loc, "varying");

$$.$init($1.loc);
if (parseContext.language == EShLangVertex)
    $$.$qualifier.storage = EvqVaryingOut;
else
    $$.$qualifier.storage = EvqVaryingIn;
}
| INOUT {
    parseContext.globalCheck($1.loc, "inout");
    $$.$init($1.loc);
    $$.$qualifier.storage = EvqInOut;
}
| IN {
    parseContext.globalCheck($1.loc, "in");
    $$.$init($1.loc);
    // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
    $$.$qualifier.storage = EvqIn;
}
| OUT {
    parseContext.globalCheck($1.loc, "out");
    $$.$init($1.loc);
    // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
    $$.$qualifier.storage = EvqOut;
}
| CENTROID {
    parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
    parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
    parseContext.globalCheck($1.loc, "centroid");
    $$.$init($1.loc);
    $$.$qualifier.centroid = true;
}
| PATCH {
    parseContext.globalCheck($1.loc, "patch");
    parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask |
EShLangTessEvaluationMask), "patch");
    $$.$init($1.loc);
    $$.$qualifier.patch = true;
}
| SAMPLE {
    parseContext.globalCheck($1.loc, "sample");
    $$.$init($1.loc);
    $$.$qualifier.sample = true;
}

```



```

}
| UNIFORM {
    parseContext.globalCheck($1.loc, "uniform");
    $$.$init($1.loc);
    $$.$qualifier.storage = EvqUniform;
}
| BUFFER {
    parseContext.globalCheck($1.loc, "buffer");
    $$.$init($1.loc);
    $$.$qualifier.storage = EvqBuffer;
}
| SHARED {
    parseContext.globalCheck($1.loc, "shared");
    parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader,
"shared");
    parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
    parseContext.requireStage($1.loc, EShLangCompute, "shared");
    $$.$init($1.loc);
    $$.$qualifier.storage = EvqShared;
}
| COHERENT {
    $$.$init($1.loc);
    $$.$qualifier.coherent = true;
}
| VOLATILE
{
    $$.$init($1.loc);
    $$.$qualifier.volatil = true;
}
| RESTRICT {
    $$.$init($1.loc);
    $$.$qualifier.restrict = true;
}
| READONLY {
    $$.$init($1.loc);
    $$.$qualifier.readonly = true;
}
| WRITEONLY {
    $$.$init($1.loc);
    $$.$qualifier.writeonly = true;
}
| SUBROUTINE {
    parseContext.spvRemoved($1.loc, "subroutine");
    parseContext.globalCheck($1.loc, "subroutine");
    parseContext.unimplemented($1.loc, "subroutine");
    $$.$init($1.loc);
}
| SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {

```

```

    parseContext.spvRemoved($1.loc, "subroutine");
    parseContext.globalCheck($1.loc, "subroutine");
    parseContext.unimplemented($1.loc, "subroutine");
    $$.$init($1.loc);
}
;

type_name_list
: IDENTIFIER {
    // TODO
}
| type_name_list COMMA IDENTIFIER {
    // TODO: 4.0 semantics: subroutines
    // 1) make sure each identifier is a type
    declared earlier with SUBROUTINE
    // 2) save all of the identifiers for future comparison with the declared function
}
;

type_specifier
: type_specifier_nonarray {
    $$ = $1;
    $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
}
| type_specifier_nonarray array_specifier {
    parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
    $$ = $1;
    $$.$qualifier.precision = parseContext.getDefaultPrecision($$);
    $$.$arraySizes = $2.arraySizes;
}
;

array_specifier
: LEFT_BRACKET RIGHT_BRACKET {
    $$.$loc = $1.loc;
    $$.$arraySizes = new TArraySizes;
    $$.$arraySizes->addInnerSize();
}
| LEFT_BRACKET conditional_expression RIGHT_BRACKET {
    $$.$loc = $1.loc;
    $$.$arraySizes = new TArraySizes;

    TArraySize size;
    parseContext.arraySizeCheck($2->getLoc(), $2, size);
    $$.$arraySizes->addInnerSize(size);
}
| array_specifier LEFT_BRACKET RIGHT_BRACKET

```

```

{
    $$ = $1;
    $$.arraySizes->addInnerSize();
}
| array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
    $$ = $1;

    TArraySize size;
    parseContext.arraySizeCheck($3->getLoc(), $3, size);
    $$.arraySizes->addInnerSize(size);
}
;

type_specifier_nonarray
: VOID {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtVoid;
}
| FLOAT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
}
| DOUBLE {
    parseContext.doubleCheck($1.loc, "double");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
}
| FLOAT16_T {
    parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
}
| FLOAT32_T {
    parseContext.explicitFloat32Check($1.loc,
"float32_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
}
| FLOAT64_T {
    parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
}
| INT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
}
| UINT {

```

```

    parseContext.fullIntegerCheck($1.loc, "unsigned integer");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
}
| INT8_T {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt8;
}
| UINT8_T {
    parseContext.explicitInt8Check($1.loc,
"8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;
}
| INT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
}
| UINT16_T {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt16;
}
| INT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
}
| UINT32_T {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned
integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
}
| INT64_T {
    parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
}
| UINT64_T {
    parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt64;
}
| BOOL {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtBool;
}
| VEC2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(2);
}
| VEC3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;

$$.$setVector(3);
}
| VEC4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(4);
}
| DVEC2 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(2);
}
| DVEC3 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(3);
}
| DVEC4 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(4);
}
| F16VEC2 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(2);
}
| F16VEC3 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(3);
}

```

```

}
| F16VEC4 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setVector(4);
}
| F32VEC2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(2);
}
| F32VEC3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType
= EbtFloat;
    $$.$setVector(3);
}
| F32VEC4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setVector(4);
}
| F64VEC2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(2);
}
| F64VEC3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setVector(3);
}
| F64VEC4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType
= EbtDouble;
    $$.$setVector(4);
}
| BVEC2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtBool;
}

```

```

    $$.setVector(2);
}
| BVEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
    $$.setVector(3);
}
| BVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
    $$.setVector(4);
}
| IVEC2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(2);
}
| IVEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(3);
}
| IVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(4);
}
| I8VEC2 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(2);
}
| I8VEC3 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(3);
}
| I8VEC4 {
    parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt8;
    $$.setVector(4);
}
| I16VEC2 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
    parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
    $$.$setVector(2);
}
| I16VEC3 {
    parseContext.explicitInt16Check($1.loc, "16-bit
signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
    $$.$setVector(3);
}
| I16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt16;
    $$.$setVector(4);
}
| I32VEC2 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(2);
}
| I32VEC3 {
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(3);
}
| I32VEC4
{
    parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt;
    $$.$setVector(4);
}
| I64VEC2 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
    $$.$setVector(2);
}
| I64VEC3 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());

```



```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;
    $$.$setVector(3);
}
| I64VEC4 {
    parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt64;

    $$.$setVector(4);
}
| UVEC2 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(2);
}
| UVEC3 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(3);
}
| UVEC4 {
    parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt;
    $$.$setVector(4);
}
| U8VEC2 {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;
    $$.$setVector(2);
}
| U8VEC3 {
    parseContext.explicitInt8Check($1.loc,
"8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtInt8;
    $$.$setVector(3);
}
| U8VEC4 {
    parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtUInt8;

```

```

    $$.setVector(4);
}
| U16VEC2 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint16;
    $$.setVector(2);
}
| U16VEC3 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint16;
    $$.setVector(3);
}
| U16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint16;
    $$.setVector(4);
}
| U32VEC2 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(2);
}
| U32VEC3 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(3);
}
| U32VEC4 {
    parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());

    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint;
    $$.setVector(4);
}
}
| U64VEC2 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtUint64;
    $$setVector(2);
}
| U64VEC3 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtUint64;
    $$setVector(3);
}
| U64VEC4 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtUint64;
    $$setVector(4);
}
| MAT2 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 2);
}
| MAT3 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(3, 3);
}
| MAT4 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(4, 4);
}
| MAT2X2 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 2);
}
| MAT2X3 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 3);
}
| MAT2X4 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 4);
}
| MAT3X2 {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;

```

```

    $$.setMatrix(3, 2);
}
| MAT3X3 {
    $$.$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 3);
}
| MAT3X4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(3, 4);
}
| MAT4X2 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 2);
}
| MAT4X3 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 3);
}
| MAT4X4 {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 4);
}
| DMAT2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| DMAT3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 3);
}
| DMAT4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 4);
}
| DMAT2X2 {

```

```

    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| DMAT2X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 3);
}
| DMAT2X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 4);
}
| DMAT3X2 {
    parseContext.doubleCheck($1.loc,
"double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 2);
}
| DMAT3X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 3);
}
| DMAT3X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 4);
}
| DMAT4X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 2);
}
| DMAT4X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4,

```

```

3);
}
| DMAT4X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 4);
}
| F16MAT2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 2);
}
| F16MAT3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(3, 3);
}
| F16MAT4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(4, 4);
}

| F16MAT2X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 2);
}
| F16MAT2X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 3);
}
| F16MAT2X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat16;
    $$.$setMatrix(2, 4);
}
| F16MAT3X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtFloat16;
    $$setMatrix(3, 2);
}
| F16MAT3X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat16;
    $$setMatrix(3, 3);
}
| F16MAT3X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat16;
    $$setMatrix(3, 4);
}
| F16MAT4X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat16;
    $$setMatrix(4, 2);
}
| F16MAT4X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat16;
    $$setMatrix(4, 3);
}
| F16MAT4X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat16;
    $$setMatrix(4, 4);
}
| F32MAT2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 2);
}
| F32MAT3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(3, 3);
}
| F32MAT4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
}

```

```

    $$basicType = EbtFloat;
    $$setMatrix(4, 4);
}
| F32MAT2X2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 2);
}
| F32MAT2X3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 3);
}
| F32MAT2X4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(2, 4);
}
| F32MAT3X2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(3, 2);
}
| F32MAT3X3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(3, 3);
}
| F32MAT3X4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(3, 4);
}
| F32MAT4X2 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtFloat;
    $$setMatrix(4, 2);
}
| F32MAT4X3 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());

```



```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 3);
}
| F32MAT4X4 {
    parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtFloat;
    $$.$setMatrix(4, 4);
}
| F64MAT2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| F64MAT3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 3);
}
| F64MAT4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 4);
}
| F64MAT2X2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 2);
}
| F64MAT2X3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 3);
}
| F64MAT2X4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(2, 4);
}
| F64MAT3X2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 2);
}
| F64MAT3X3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 3);
}
| F64MAT3X4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(3, 4);
}
| F64MAT4X2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 2);
}
| F64MAT4X3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t
matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 3);
}
| F64MAT4X4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtDouble;
    $$.$setMatrix(4, 4);
}
| ATOMIC_UINT {
    parseContext.vulkanRemoved($1.loc, "atomic counter types");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtAtomicUint;
}
| SAMPLER1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd1D);
}
| SAMPLER2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;

```

```

    $$sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {

$$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd1D, false, true);
}
| SAMPLER2DSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, Esd2D, true, true);
}
}

```

```

| SAMPLERCUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdCube, true);
}
| SAMPLERCUBEARRAYSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, EsdCube, true, true);
}
| F16SAMPLER1D
{
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd1D);
#endif
}
| F16SAMPLER2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D);
#endif
}
| F16SAMPLER3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd3D);
#endif
}
| F16SAMPLERCUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube);
#endif
}
| F16SAMPLER1DSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd1D, false, true);
#endif
}
| F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd2D, false, true);
#endif
}
| F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdCube, false, true);
#endif
}
| F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd1D, true);
#endif
}
| F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd2D, true);
#endif
}
| F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, Esd1D, true, true);
#endif
}
| F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS

```

```

    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, true, true);
#endif
}
| F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube, true);
#endif
}
| F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc,
"half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, EsdCube, true, true);
#endif
}
| ISAMPLER1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd1D);
}
| ISAMPLER2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D);
}
| ISAMPLER3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd3D);
}
| ISAMPLERCUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdCube);
}
| ISAMPLER1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd1D, true);
}
}

```

```

| ISAMPLER2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtInt, Esd2D, true);
}
| ISAMPLERCUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtInt, EsdCube, true);
}
| USAMPLER1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd1D);
}
| USAMPLER2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd2D);
}
| USAMPLER3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd3D);
}
| USAMPLERCUBE {
    $$init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, EsdCube);
}
| USAMPLER1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd1D, true);
}
| USAMPLER2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, Esd2D, true);
}
| USAMPLERCUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtUint, EsdCube, true);
}
| SAMPLER2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdRect);
}
| SAMPLER2DRECTSHADOW {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat,
EsdRect, false, true);
}
| F16SAMPLER2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdRect);
#endif
}
| F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdRect, false, true);
#endif
}
}
| ISAMPLER2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtInt, EsdRect);
}
| USAMPLER2DRECT {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;

    $$sampler.set(EbtUint, EsdRect);
}
| SAMPLERBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat, EsdBuffer);
}
| F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.set(EbtFloat16, EsdBuffer);
#endif
}
}

```



```

}
| ISAMPLERBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, EsdBuffer);
}
| USAMPLERBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, EsdBuffer);
}
| SAMPLER2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, false, false, true);
}
| F16SAMPLER2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ISAMPLER2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D, false, false, true);
}
| USAMPLER2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, Esd2D, false, false, true);
}
| SAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D, true, false, true);
}
| F16SAMPLER2DMSARRAY
{
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
}
}

```

```

| ISAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtInt, Esd2D, true, false, true);
}
| USAMPLER2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtUint, Esd2D, true, false, true);
}
| SAMPLER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setPureSampler(false);
}
| SAMPLERSHADOW {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setPureSampler(true);
}
| TEXTURE1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd1D);
}
| F16TEXTURE1D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd1D);
#endif
}
| TEXTURE2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D);
}
| F16TEXTURE2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16,
Esd2D);
#endif
}
| TEXTURE3D {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd3D);
}
| F16TEXTURE3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd3D);
#endif
}
| TEXTURECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdCube);
}
| F16TEXTURECUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16,
EsdCube);
#endif
}
| TEXTURE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd1D, true);
}
| F16TEXTURE1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd1D, true);
#endif
}
| TEXTURE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D, true);
}
| F16TEXTURE2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
}
| TEXTURECUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat, EsdCube, true);
}
| F16TEXTURECUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtFloat16, EsdCube, true);
#endif
}
| ITEXTURE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd1D);
}
| ITEXTURE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd2D);
}
| ITEXTURE3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd3D);
}
| ITEXTURECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, EsdCube);
}
| ITEXTURE1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd1D, true);
}
| ITEXTURE2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setTexture(EbtInt, Esd2D, true);
}
| ITEXTURECUBEARRAY {

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdCube, true);
}
| UTEXTURE1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint,
Esd1D);
}
| UTEXTURE2D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D);
}
| UTEXTURE3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd3D);
}
| UTEXTURECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdCube);
}
| UTEXTURE1DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd1D, true);
}
| UTEXTURE2DARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D, true);
}
| UTEXTURECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdCube, true);
}
| TEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdRect);
}
| F16TEXTURE2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdRect);
#endif
}
| ITEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdRect);
}
| UTEXTURE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdRect);
}
| TEXTUREBUFFER
{
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, EsdBuffer);
}
| F16TEXTUREBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, EsdBuffer);
#endif
}
| ITEXTUREBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, EsdBuffer);
}
| UTEXTUREBUFFER {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, EsdBuffer);
}
| TEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat,
Esd2D, false, false, true);
}
| F16TEXTURE2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());

```

```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
}
| ITEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd2D, false, false, true);
}
| UTEXTURE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D, false, false, true);
}
| TEXTURE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat, Esd2D, true, false, true);
}
| F16TEXTURE2DMSARRAY
{
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
}
| ITEXTURE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtInt, Esd2D, true, false, true);
}
| UTEXTURE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setTexture(EbtUint, Esd2D, true, false, true);
}
| IMAGE1D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd1D);
}
| F16IMAGE1D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float

```

```

image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd1D);
#endif
}
| IIMAGE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd1D);
}
| UIMAGE1D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd1D);
}
| IMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd2D);
}
| F16IMAGE2D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16,
Esd2D);
#endif
}
| IIMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D);
}
| UIMAGE2D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D);
}
| IMAGE3D {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd3D);
}
| F16IMAGE3D {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());

```



```

    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd3D);
#endif
}
| IIMAGE3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt,
Esd3D);
}
| UIMAGE3D {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd3D);
}
| IMAGE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, EsdRect);
}
| F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, EsdRect);
#endif
}
| IIMAGE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, EsdRect);
}
| UIMAGE2DRECT {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, EsdRect);
}
| IMAGECUBE {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, EsdCube);
}
| F16IMAGECUBE {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdCube);
#endif
}
| IIMAGECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, EsdCube);
}
| UIMAGECUBE {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, EsdCube);
}
| IMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType
= EbtSampler;
    $$sampler.setImage(EbtFloat, EsdBuffer);
}
| F16IMAGEBUFFER {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdBuffer);
#endif
}
| IIMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, EsdBuffer);
}
| UIMAGEBUFFER {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, EsdBuffer);
}
| IMAGE1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd1D, true);
}
| F16IMAGE1DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc,
"half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());

```

```

    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd1D, true);
#endif
}
| IIMAGE1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd1D, true);
}
| UIMAGE1DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd1D, true);
}
| IMAGE2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, Esd2D, true);
}
| F16IMAGE2DARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, Esd2D, true);
#endif
}
| IIMAGE2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtInt, Esd2D, true);
}
| UIMAGE2DARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtUint, Esd2D, true);
}
| IMAGECUBEARRAY {
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat, EsdCube, true);
}
| F16IMAGECUBEARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$basicType = EbtSampler;
    $$sampler.setImage(EbtFloat16, EsdCube, true);

```

```

#endif
}
| IIMAGECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, EsdCube, true);
}
| UIMAGECUBEARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, EsdCube, true);
}
| IMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd2D, false, false, true);
}
| F16IMAGE2DMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif
}
| IIMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());

    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, Esd2D, false, false, true);
}
| UIMAGE2DMS {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd2D, false, false, true);
}
| IMAGE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat, Esd2D, true, false, true);
}
| F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
}
#endif

```

```

}
| IIMAGE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtInt, Esd2D, true,
false, true);
}
| UIMAGE2DMSARRAY {
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setImage(EbtUint, Esd2D, true, false, true);
}
| SAMPLEREXTERNALOES { // GL_OES_EGL_image_external
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.set(EbtFloat, Esd2D);
    $$.$sampler.external = true;
}
| SUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtFloat);
}
| SUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtFloat, true);
}
| F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtFloat16);
#endif
}
| F16SUBPASSINPUTMS {
#ifdef AMD_EXTENSIONS
    parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtFloat16, true);
#endif
}

```

```

#endif
}
| ISUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtInt);
}
| ISUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtInt, true);
}
| USUBPASSINPUT {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtUInt);
}
| USUBPASSINPUTMS {
    parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtSampler;
    $$.$sampler.setSubpass(EbtUInt, true);
}
| struct_specifier {
    $$ = $1;
    $$.$qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
    parseContext.structTypeCheck($$.loc, $$);
}
| TYPE_NAME {

//
// This is for user defined type names. The lexical phase looked up the
// type.
//
if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
    const TType& structure = variable->getType();
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.$basicType = EbtStruct;
    $$.$userDef = &structure;
} else
    parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
}
;

```

precision\_qualifier

```

: HIGH_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqHigh);
}
| MEDIUM_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc,
$.qualifier, EpqMedium);
}
| LOW_PRECISION {
    parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
    $$.$init($1.loc, parseContext.symbolTable.atGlobalLevel());
    parseContext.handlePrecisionQualifier($1.loc, $$.$qualifier, EpqLow);
}
;

struct_specifier
: STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
    TType* structure = new TType($5, *$2.string);
    parseContext.structArrayCheck($2.loc, *structure);
    TVariable* userTypeDef = new TVariable($2.string, *structure, true);
    if (! parseContext.symbolTable.insert(*userTypeDef))
        parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
    $$.$init($1.loc);
    $$.$basicType = EbtStruct;
    $$.$userDef = structure;
    --parseContext.structNestingLevel;
}
| STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc);
} struct_declaration_list RIGHT_BRACE {
    TType* structure = new TType($4, TString(""));
    $$.$init($1.loc);
    $$.$basicType = EbtStruct;
    $$.$userDef = structure;
    --parseContext.structNestingLevel;
}
;

struct_declaration_list
: struct_declaration {
    $$ = $1;
}
| struct_declaration_list struct_declaration {
    $$ = $1;
    for (unsigned int i = 0; i < $2->size(); ++i) {

```

```

    for (unsigned int j = 0; j < $$->size(); ++j) {
        if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
            parseContext.error((*$2)[i].loc, "duplicate member name:", "", (*$2)[i].type->getFieldName().c_str());
        }
    $$->push_back((*$2)[i]);
    }
}
;

struct_declaration
: type_specifier struct_declarator_list SEMICOLON {
    if ($1.arraySizes) {
        parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed
type");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        if (parseContext.profile == EEsProfile)
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }

    $$ = $2;

    parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
    parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

    for (unsigned int i = 0; i < $$->size(); ++i) {
        parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
        (*$$)[i].type->mergeType($1);
        }
    }
| type_qualifier type_specifier struct_declarator_list SEMICOLON {
    parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
    if ($2.arraySizes) {
        parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
        parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
        if (parseContext.profile
== EEsProfile)
            parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
        }

    $$ = $3;

    parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
    parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
    parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
    parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

    for (unsigned int i = 0; i < $$->size(); ++i) {
        parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);

```



```

        (*$$)[i].type->mergeType($2);
    }
}
;

struct_declarator_list
: struct_declarator {
    $$ = new TTypeList;
    $$->push_back($1);
}
| struct_declarator_list COMMA struct_declarator {
    $$->push_back($3);
}
;

struct_declarator
: IDENTIFIER {
    $$ .type = new TType(EbtVoid);
    $$ .loc = $1 .loc;
    $$ .type->setFieldName(*$1 .string);
}
| IDENTIFIER array_specifier {
    parseContext.arrayDimCheck($1 .loc, $2 .arraySizes, 0);

    $$ .type = new TType(EbtVoid);
    $$ .loc = $1 .loc;
    $$ .type->setFieldName(*$1 .string);
    $$ .type->newArraySizes(*$2 .arraySizes);
}
;

initializer
: assignment_expression {
    $$ = $1;
}
| LEFT_BRACE initializer_list RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1 .loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1 .loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
    $$ = $2;
}
| LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
    const char* initFeature = "{ } style initializers";
    parseContext.requireProfile($1 .loc, ~EEsProfile, initFeature);
    parseContext.profileRequires($1 .loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
    $$ = $2;
}
;

```

```

initializer_list
: initializer {
    $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
}
| initializer_list COMMA initializer {
    $$ = parseContext.intermediate.growAggregate($1, $3);
}
;

declaration_statement
: declaration { $$ = $1; }
;

statement
: compound_statement { $$ = $1; }
| simple_statement { $$ = $1; }
;

// Grammar Note: labeled statements for switch statements only; 'goto' is not supported.

simple_statement
: declaration_statement { $$ = $1; }
| expression_statement { $$ = $1; }
| selection_statement { $$ = $1; }
| switch_statement { $$ = $1; }
| case_label { $$ = $1; }
| iteration_statement { $$ = $1; }
| jump_statement { $$ = $1; }
;

compound_statement
: LEFT_BRACE RIGHT_BRACE { $$ = 0; }
| LEFT_BRACE {
    parseContext.symbolTable.push();
    ++parseContext.statementNestingLevel;
}
statement_list {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
}
RIGHT_BRACE {
    if ($3 && $3->getAsAggregate())
        $3->getAsAggregate()->setOperator(EOpSequence);
    $$ = $3;
}
;

```

```

statement_no_new_scope
: compound_statement_no_new_scope { $$ = $1; }
| simple_statement      { $$ = $1; }
;

statement_scoped
: {
  ++parseContext.controlFlowNestingLevel;
}
compound_statement {
  --parseContext.controlFlowNestingLevel;
  $$ = $2;
}
| {
  parseContext.symbolTable.push();
  ++parseContext.statementNestingLevel;
  ++parseContext.controlFlowNestingLevel;
}
simple_statement {
  parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
  --parseContext.statementNestingLevel;
  --parseContext.controlFlowNestingLevel;
  $$ = $2;
}

compound_statement_no_new_scope
// Statement that doesn't create a new scope,
for selection_statement, iteration_statement
: LEFT_BRACE RIGHT_BRACE {
  $$ = 0;
}
| LEFT_BRACE statement_list RIGHT_BRACE {
  if ($2 && $2->getAsAggregate())
    $2->getAsAggregate()->setOperator(EOpSequence);
  $$ = $2;
}
;

statement_list
: statement {
  $$ = parseContext.intermediate.makeAggregate($1);
  if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
    $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
    parseContext.wrapupSwitchSubsequence(0, $1);
    $$ = 0; // start a fresh subsequence for what's after this case
  }
}
| statement_list statement {

```

```

    if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
        $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
        parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate()
: 0, $2);
        $$ = 0; // start a fresh subsequence for what's after this case
    } else
        $$ = parseContext.intermediate.growAggregate($1, $2);
}
;

```

```

expression_statement
: SEMICOLON { $$ = 0; }
| expression SEMICOLON { $$ = static_cast<TIntermNode*>($1); }
;

```

```

selection_statement
: selection_statement_nonattributed {
    $$ = $1;
}
| attribute selection_statement_nonattributed {
    parseContext.handleSelectionAttributes(*$1, $2);
    $$ = $2;
}

```

```

selection_statement_nonattributed
: IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
    parseContext.boolCheck($1.loc, $3);
    $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
}
;

```

```

selection_rest_statement
: statement_scoped ELSE statement_scoped {
    $$node1 = $1;
    $$node2 = $3;
}
| statement_scoped {
    $$node1 = $1;
    $$node2 = 0;
}
;

```

```

condition
// In 1996 c++ draft,
conditions can include single declarations
: expression {
    $$ = $1;
    parseContext.boolCheck($1->getLoc(), $1);
}
;

```

```

}
| fully_specified_type IDENTIFIER EQUAL initializer {
    parseContext.boolCheck($2.loc, $1);

    TType type($1);
    TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
    if (initNode)
        $$ = initNode->getAsTyped();
    else
        $$ = 0;
}
;

switch_statement
: switch_statement_nonattributed {
    $$ = $1;
}
| attribute switch_statement_nonattributed {
    parseContext.handleSwitchAttributes(*$1, $2);
    $$ = $2;
}

switch_statement_nonattributed
: SWITCH LEFT_PAREN expression RIGHT_PAREN {
    // start new switch sequence on the switch stack
    ++parseContext.controlFlowNestingLevel;
    ++parseContext.statementNestingLevel;
    parseContext.switchSequenceStack.push_back(new TIntermSequence);
    parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
    parseContext.symbolTable.push();
}
LEFT_BRACE switch_statement_list RIGHT_BRACE {
    $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
    delete parseContext.switchSequenceStack.back();
    parseContext.switchSequenceStack.pop_back();
    parseContext.switchLevel.pop_back();
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
;

switch_statement_list
: /* nothing */ {
    $$ = 0;
}
| statement_list {
    $$ = $1;
}

```

```

}
;

case_label
: CASE expression COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
        parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
        parseContext.error($1.loc,
"cannot be nested inside control flow", "case", "");
    else {
        parseContext.constantValueCheck($2, "case");
        parseContext.integerCheck($2, "case");
        $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
    }
}
| DEFAULT COLON {
    $$ = 0;
    if (parseContext.switchLevel.size() == 0)
        parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
    else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
        parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
    else
        $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
}
;

iteration_statement
: iteration_statement_nonattributed {
    $$ = $1;
}
| attribute iteration_statement_nonattributed {
    parseContext.handleLoopAttributes(*$1, $2);
    $$ = $2;
}

iteration_statement_nonattributed
: WHILE LEFT_PAREN {
    if (! parseContext.limits.whileLoops)
        parseContext.error($1.loc, "while loops not available", "limitation", "");
    parseContext.symbolTable.push();
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
condition RIGHT_PAREN statement_no_new_scope {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
}

```

```

    $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
    --parseContext.loopNestingLevel;
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
| DO {
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
    if (! parseContext.limits.whileLoops)
        parseContext.error($1.loc, "do-while loops
not available", "limitation", "");

    parseContext.boolCheck($8.loc, $6);

    $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
    --parseContext.loopNestingLevel;
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
| FOR LEFT_PAREN {
    parseContext.symbolTable.push();
    ++parseContext.loopNestingLevel;
    ++parseContext.statementNestingLevel;
    ++parseContext.controlFlowNestingLevel;
}
for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
    TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
    if (! parseContext.limits.nonInductiveForLoops)
        parseContext.inductiveLoopCheck($1.loc,
$4, forLoop);
    $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
    $$->getAsAggregate()->setOperator(EOpSequence);
    --parseContext.loopNestingLevel;
    --parseContext.statementNestingLevel;
    --parseContext.controlFlowNestingLevel;
}
;

for_init_statement
: expression_statement {
    $$ = $1;
}

```

```

| declaration_statement {
    $$ = $1;
}
;

conditionopt
: condition {
    $$ = $1;
}
| /* May be null */ {
    $$ = 0;
}
;

for_rest_statement
: conditionopt SEMICOLON {
    $$ .node1 = $1;
    $$ .node2 = 0;
}
| conditionopt SEMICOLON expression {
    $$ .node1 = $1;
    $$ .node2 = $3;
}
;

jump_statement
: CONTINUE SEMICOLON {
    if (parseContext.loopNestingLevel <= 0)
        parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
    $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
}
|
BREAK SEMICOLON {
    if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
        parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
    $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
}
| RETURN SEMICOLON {
    $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
        parseContext.error($1.loc, "non-void function must return a value", "return", "");
    if (parseContext.inMain)
        parseContext.postEntryPointReturn = true;
}
| RETURN expression SEMICOLON {
    $$ = parseContext.handleReturnValue($1.loc, $2);
}
| DISCARD SEMICOLON {

```



```

    parseContext.requireStage($1.loc, EShLangFragment, "discard");
    $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
}
;

// Grammar Note: No 'goto'. Gotos are not supported.

translation_unit
: external_declaration
{
    $$ = $1;
    parseContext.intermediate.setTreeRoot($$);
}
| translation_unit external_declaration {
    if ($2 != nullptr) {
        $$ = parseContext.intermediate.growAggregate($1, $2);
        parseContext.intermediate.setTreeRoot($$);
    }
}
;

external_declaration
: function_definition {
    $$ = $1;
}
| declaration {
    $$ = $1;
}
| SEMICOLON {
    parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
    parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
    $$ = nullptr;
}
;

function_definition
: function_prototype {
    $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
    $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
}
compound_statement_no_new_scope {
    // May be best done as post process phase on intermediate
code
    if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
        parseContext.error($1.loc, "function does not return a value:", "", $1.function->getName().c_str());
    parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
    $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
    parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
}

```

```

$$->getAsAggregate()->setName($1.function->getMangledName().c_str());

// store the pragma information for debug and optimize and other vendor specific
// information. This information can be queried from the parse tree
$$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
$$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
$$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
}
;

```

attribute

```

: LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
    $$ = $3;
    parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
}

```

attribute\_list

```

: single_attribute {
    $$ = $1;
}
| attribute_list COMMA single_attribute {
    $$ = parseContext.mergeAttributes($1, $3);
}

```

single\_attribute

```

: IDENTIFIER {
    $$ = parseContext.makeAttributes(*$1.string);
}
| IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
    $$ = parseContext.makeAttributes(*$1.string, $3);
}

```

%%

Found in path(s):

```

* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
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\*

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*
/opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslOpMap.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslOpMap.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-gslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-gslang-5798d23/hlsl/hlslAttributes.h
```

## 1.413 json-logging 1.3.0

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---

# 1.414 jinja2 3.0.3

## 1.414.1 Available under license :

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.3

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: [armin.ronacher@active-4.com](mailto:armin.ronacher@active-4.com)

Maintainer: Pallets

Maintainer-email: [contact@palletsprojects.com](mailto:contact@palletsprojects.com)

License: BSD-3-Clause

Project-URL: Donate, <https://palletsprojects.com/donate>

Project-URL: Documentation, <https://jinja.palletsprojects.com/>

Project-URL: Changes, <https://jinja.palletsprojects.com/changes/>

Project-URL: Source Code, <https://github.com/pallets/jinja/>

Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>

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Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Environment :: Web Environment  
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Classifier:  
Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Classifier: Topic :: Text Processing :: Markup :: HTML  
Requires-Python: >=3.6  
Description-Content-Type: text/x-rst  
Provides-Extra: i18n  
License-File: LICENSE.rst

## Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- 
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

## Installing

-----

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip: https://pip.pypa.io/en/stable/getting-started/
```

In A Nutshell

-----

```
.. code-block:: jinja
```

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
<ul>
{% for user in users % }
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor % }
</ul>
{% endblock % }
```

Donate

-----

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, please donate today`\_.

```
.. _please donate today: https://palletsprojects.com/donate
```

Links

-----

- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>

- Chat: <https://discord.gg/pallets>

Found in path(s):

\* /opt/cola/permits/1226358395\_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

\* /opt/cola/permits/1226358395\_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO

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[metadata]

name = Jinja2

version = attr: jinja2.\_\_version\_\_

url = <https://palletsprojects.com/p/jinja/>

project\_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://jinja.palletsprojects.com/>

Changes = <https://jinja.palletsprojects.com/changes/>  
Source Code = <https://github.com/pallets/jinja/>  
Issue Tracker = <https://github.com/pallets/jinja/issues/>  
Twitter = <https://twitter.com/PalletsTeam>  
Chat = <https://discord.gg/pallets>  
license = BSD-3-Clause  
license\_files = LICENSE.rst  
author = Armin Ronacher  
author\_email = armin.ronacher@active-4.com  
maintainer = Pallets  
maintainer\_email = contact@palletsprojects.com  
description = A very fast and expressive template engine.  
long\_description = file: README.rst  
long\_description\_content\_type = text/x-rst  
classifiers =  
Development Status :: 5 - Production/Stable  
Environment :: Web Environment  
Intended Audience :: Developers  
License :: OSI Approved ::  
BSD License  
Operating System :: OS Independent  
Programming Language :: Python  
Topic :: Internet :: WWW/HTTP :: Dynamic Content  
Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:  
package\_dir = = src  
include\_package\_data = true  
python\_requires = >= 3.6

[options.packages.find]

where = src

[options.entry\_points]

babel.extractors =  
jinja2 = jinja2.ext:babel\_extract[!18n]

[tool:pytest]

testpaths = tests  
filterwarnings =  
error  
ignore:The loop argument:DeprecationWarning:asyncio[.]base\_events:542

[coverage:run]

branch = True  
source =  
jinja2

tests

[coverage:paths]

source =

src

\*/site-packages

[flake8]

select = B, E, F, W, B9, ISC

ignore =

E203

E501

E722

W503

max-line-length = 80

per-file-ignores =

src/jinja2/\_\_\_init\_\_\_py: F401

[mypy]

files = src/jinja2

python\_version = 3.6

disallow\_subclassing\_any = True

disallow\_untyped\_calls = True

disallow\_untyped\_defs = True

disallow\_incomplete\_defs = True

no\_implicit\_optional = True

local\_partial\_types = True

no\_implicit\_reexport

= True

strict\_equality = True

warn\_redundant\_casts = True

warn\_unused\_configs = True

warn\_unused\_ignores = True

warn\_return\_any = True

warn\_unreachable = True

[mypy-jinja2.defaults]

no\_implicit\_reexport = False

[mypy-markupsafe]

no\_implicit\_reexport = False

[egg\_info]

tag\_build =

tag\_date = 0

Found in path(s):

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# 1.415 alsa 1.2.2-2.1ubuntu2.5

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Any

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# 1.416 gofrs-flock 0.8.1

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## 1.417 protobuf 1.26.0-rc.1

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
```

```
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

### ## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/g" > $@; \
[ -s $@ ] || rm -f $@'
```

```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*/g" > $@; \
[ -s $@ ] || rm -f $@'
```

### ## Versioned libraries rules

```
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@
```

### ## Bind internal references

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

### ## End BSD-specific setup

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# -----

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## 1.420 wget 1.20.3-1ubuntu2

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17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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# 1.423 six 1.14.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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# 1.424 python 3.8.2-0ubuntu2

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This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from [ftp.python.org/pub/python](http://ftp.python.org/pub/python), based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.



All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2	1991-1995	CWI		yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009		
	PSF	yes		
3.0	2.6	2008	PSF	yes
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## 1.426 libseccomp 2.5.1-1ubuntu1~20.04.2

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## 1.428 properties 1.8.1

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goproperties - properties file decoder for Go

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## 1.429 configparser 5.2.0

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# 1.435 valyala-fastrand 1.0.0

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name: license-check

on:

push:

paths:

- 'vendor'

pull\_request:

paths:

- 'vendor'

permissions:

contents: read

jobs:

build:

name: Build

runs-on: ubuntu-latest

steps:

- name: Setup Go

uses: actions/setup-go@main

with:

go-version: 1.18

id: go

- name: Code checkout

uses: actions/checkout@master

- name: Check License

run: |

make check-licenses

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# that the second address should be recognized as the
# same person when interacting with Rietveld.
```

```
# Please keep the list sorted.
```

```
Alain Vongsouvanhalainv <alainv@google.com>
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Eric Koleda <ekoleda+devrel@goglers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
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## 1.440 valyala-fastrand 1.1.0

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/DOMASException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom3/as/NodeEditAS.java  
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 * limitations under the License.
 */
/**
 * Checks if this content model has had its min/maxOccurs values reduced for
 * purposes of speeding up UPA. If
 * so, this content model should not be used
 * for any purpose other than checking unique particle attribution
 *
 * @return a boolean that says whether this content has been compacted for UPA
 */
```

Found in path(s):  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java  
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\*/

/\*\*

- \* DOM Level 3 LS CR - Experimental.
- \* Create a new `LSParser`. The newly constructed parser may
- \* then be configured by means of its `DOMConfiguration`
- \* object, and used to parse documents by means of its `parse`
- \* method.
- \* @param mode The `mode` argument is either
- \* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
- \* `mode` is `MODE_SYNCHRONOUS` then the
- \* `LSParser` that is created will operate in synchronous
- \* mode, if it's `MODE_ASYNCHRONOUS` then the
- \* `LSParser` that is created will operate in asynchronous
- \* mode.
- \* @param schemaType An absolute URI representing the type of the schema
- \* language used during the load of a `Document` using the
- \* newly created `LSParser`. Note that no lexical checking
- \* is done on the absolute URI. In order to create a
- \* `LSParser` for any kind of schema types (i.e. the
- \* `LSParser` will be free to use any schema

found), use the value

- \* `null`.
- \* **Note:** For W3C XML Schema [[XML Schema Part 1](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)]
- \* , applications must use the value
- \* `"http://www.w3.org/2001/XMLSchema"`. For XML DTD [[XML 1.0](http://www.w3.org/TR/2000/REC-xml-20001006/)],
- \* applications must use the value
- \* `"http://www.w3.org/TR/REC-xml"`. Other Schema languages
- \* are outside the scope of the W3C and therefore should recommend an
- \* absolute URI in order to use this method.
- \* @return The newly created `LSParser` object. This
- \* `LSParser` is either synchronous or asynchronous
- \* depending on the value of the `mode` argument.
- \* **Note:** By default, the newly created `LSParser`
- \* does not contain a `DOMErrorHandler`, i.e. the value of
- \* the "[parameter-error-handler](http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler)"
- \* configuration parameter is `null`. However, implementations
- \* may provide a default error handler at creation time. In that case,
- \* the initial value of the `"error-handler"` configuration
- \* parameter on the new created `LSParser` contains a
- \* reference to the default error handler.



\* @exception DOMException  
\* NOT\_SUPPORTED\_ERR: Raised if the requested mode or schema type is  
\* not supported.  
\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/xni/parser/XMLErrorHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/html/dom/HTMLFrameElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/util/ShadowedSymbolTable.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLImgElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/WMLOptgroupElement.java

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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java  
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jar/org/apache/html/dom/HTMLFieldSetElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLCardElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/util/ShortListImpl.java  
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jar/org/apache/xerces/impl/dv/util/Base64.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/CDATASectionImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/CMBUILDER.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/dv/XSSimpleType.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/opti/ElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/dom/events/UIEventImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xml/serialize/Method.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/stax/events/EntityReferenceImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
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jar/org/apache/html/dom/HTMLBodyElementImpl.java  
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jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java  
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/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java  
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jar/org/apache/xerces/dom/DeferredAttrImpl.java  
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jar/org/apache/xerces/util/DOMUtil.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-  
jar/org/apache/wml/dom/WMLIElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SecurityManager.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java  
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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF16Reader.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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```

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*/
/**
```

\* used to check the 3 constraints against each complex type

\* (should be each model group):

\* Unique Particle

Attribution, Particle Derivation (Restriction),

\* Element Declarations Consistent.

\*/

Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/package.html

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java

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Found in path(s):

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java

\*

/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java

\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties  
\*  
/opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message\_fr.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message\_ja.properties  
\* /opt/cola/permits/1257218116\_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties

# 1.443 simpleclient 0.9.0

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- \* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12>
- \*/

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- \* /opt/cola/permits/1257332897\_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/DoubleAdder.java

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- \*
- \* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10>
- \*/

Found in path(s):

\* /opt/cola/permits/1257332897\_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/Striped64.java

## 1.444 simpleclient-servlet 0.9.0

### 1.444.1 Available under license :

Apache-2.0

## 1.445 simpleclient-dropwizard 0.9.0

### 1.445.1 Available under license :

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## 1.446 jetty-setuid-java 1.0.4

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Found in path(s):

```
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
*
/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java
```

# 1.447 logging-interceptor 3.12.12

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```

Found in path(s):

```
*/opt/cola/permits/1257332962_1642801933.56/0/logging-interceptor-3-12-12-sources-
jar/okhttp3/logging/LoggingEventListener.java
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```

Found in path(s):

```
*/opt/cola/permits/1257332962_1642801933.56/0/logging-interceptor-3-12-12-sources-
jar/okhttp3/logging/HttpLoggingInterceptor.java
```

# 1.448 zjsonpatch 0.3.0

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```

Found in path(s):

```
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NodeType.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonDiff.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NoopProcessor.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Constants.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Operation.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatch.java
*
```

# 1.449 java-semver 0.9.0

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 */
```

Found in path(s):

```
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/LexerException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/package-info.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/And.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/Not.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/ExpressionParser.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-
jar/com/github/zafarkhaja/semver/expr/package-info.java
*
```

/opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/GreaterOrEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/LessOrEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Equal.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/UnexpectedTokenException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/NotEqual.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/CompositeExpression.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Or.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/Stream.java  
\*  
/opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Expression.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/VersionParser.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/UnexpectedElementException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Version.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/NormalVersion.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Lexer.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/UnexpectedCharacterException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/package-info.java  
\*  
/opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Less.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Parser.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Greater.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/ParseException.java  
\* /opt/cola/permits/1257333337\_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/MetadataVersion.java



# 1.450 profiler 1.1.1

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```
/*!  
* jQuery JavaScript Library v1.6.2  
* http://jquery.com/  
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* http://jquery.org/license  
*  
* Includes Sizzle.js  
* http://sizzlejs.com/  
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*  
* Date: Thu Jun 30 14:16:56 2011 -0400  
*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js
```

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```
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* jQuery Templates Plugin 1.0.0pre  
* http://github.com/jquery/jquery-tmpl  
* Requires jQuery 1.4.2  
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*/
```

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```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js
```

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\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfiler.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java  
\* /opt/cola/permits/1257333100\_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

## 1.451 simpleclient-common 0.9.0

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## 1.452 stateless4j 2.5.0

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- \*/

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- \* /opt/cola/permits/1257784248\_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
- \* /opt/cola/permits/1257784248\_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/OutVar.java

## 1.453 mchange-commons-java 0.2.15

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## 1.460 plexus-utils 3.3.0

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Found in path(s):

```
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/ReflectHelper.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/annotation/Arg.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/FeatureControl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
```

```

jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/ArgumentParsers.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Argument.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Subparsers.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Namespace.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/Arguments.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Subparser.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/TextHelper.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java

```

\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\*  
/opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/helper/PrefixPattern.java  
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\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/inf/MetavarInference.java  
\* /opt/cola/permits/1260522043\_1643170161.62/0/argparse4j-0-7-0-sources-jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumArgumentType.java

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-----  
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```
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```

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(By Douglas Crockford <douglas@crockford.com>)

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For lib/cpp/src/thrift/windows/SocketPair.cpp

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```

-----  
For lib/py/compat/win32/stdint.h

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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-----  
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# 1.465 otel-exporters-otlp-otlptrace 1.0.1

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```
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```
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

```
# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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# the copyright notice and this notice are preserved.
```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
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 * this copyright notice must
   be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
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//
//////////////////////////////////////////////////////////////////
```

```
-----
Codegen template
in t_html_generator.h
```

```
* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

```
-----
For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
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```

# 1.467 contrib-instrumentation- google.golang.org-grpc-otelgrpc 0.25.0

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# 1.468 resty 2.7.0

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## 1.472 evanphx-json-patch

### 4.12.0+incompatible

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jar/javax/xml/bind/annotation/XmlRegistry.java  
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jar/javax/xml/bind/PropertyException.java



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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-
jar/javax/xml/bind/annotation/XmlAttribute.java
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- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerHandler.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterInterface.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEvent.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBSource.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
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- /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationException.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Element.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ContextFinder.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerException.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBContext.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/NotIdentifiableEvent.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/ValidationEventCollector.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Marshaller.java
- \*
- /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
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jar/javax/xml/bind/ValidationEventLocator.java  
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jar/javax/xml/bind/helpers/ValidationEventImpl.java  
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jar/javax/xml/bind/JAXBException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/helpers/PrintConversionEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java  
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- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMixed.java
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- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java

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/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessOrder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/DomHandler.java  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/SchemaOutputResolver.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Binder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttachmentRef.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentMarshaller.java  
\*  
/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementWrapper.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlList.java

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jar/javax/xml/bind/JAXBPermission.java  
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jar/javax/xml/bind/WhiteSpaceProcessor.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/DatatypeConverterImpl.java

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\* /opt/cola/permits/1294800837\_1648249590.43/0/okio-1-15-0-sources-jar/okio/InflaterSource.java

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* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Buffer.java
*
/opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/AsyncTimeout.java
* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/RealBufferedSource.java
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* /opt/cola/permits/1294800837_1648249590.43/0/okio-1-15-0-sources-jar/okio/Segment.java
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# 1.497 zlib 1.2.12

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\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.12, March 11th, 2022

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Jean-loup Gailly      Mark Adler  
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| from           | compatible? (1) |           |            |     |
|----------------|-----------------|-----------|------------|-----|
| 0.9.0 thru 1.2 | 1991-1995       | CWI       | yes        |     |
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| 1.6            | 1.5.2           | 2000      | CNRI       | no  |
| 2.0            | 1.6             | 2000      | BeOpen.com | no  |
| 1.6.1          |                 |           |            |     |
| 1.6            | 2001            | CNRI      | yes (2)    |     |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no  |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes |
| 2.2            | 2.1.1           | 2001      | PSF        | yes |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes |
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## 1.503 xz 5.2.4-1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

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Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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## 1.518 pierrec-lz4 2.2.6+incompatible

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# 1.522 servlet-api 3.1.0

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Version: 0.0.0

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\* /opt/cola/permits/1320410882\_1651537966.27/0/pkg-resources-0-0-0-dist-info-  
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# 1.527 glibc 2.31-0ubuntu9.9

## 1.527.1 Available under license :

/\* Test program for the gcc interface.

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# 1.535 jwalterweatherman 1.1.0

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## 1.542 gojsonschema 1.2.0

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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```

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```

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2.1, February 1999

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## 1.551 jaxb-core 2.3.0

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\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/META-INF/maven/org.glassfish.jaxb/jaxb-core/pom.xml

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Found in path(s):

\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/schemagen/episode/Package.java

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```

Found in path(s):

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/XMLWriter.java
```

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```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_de.properties
```

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_zh_TW.properties
```

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_zh_CN.properties
```

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_it.properties
```

```
*
```

```
/opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_pt_BR.properties
```

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_ko.properties
```

```
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
```

```
jar/com/sun/xml/bind/Messages_ja.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_fr.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/Messages_es.properties
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jar/com/sun/xml/bind/marshaller/Messages_de.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_zh_CN.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages_ja.properties
*
/opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages_zh_TW.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_pt_BR.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_de.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages_pt_BR.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages_zh_CN.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_it.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages_it.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages.properties
*
/opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_es.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_ja.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/v2/Messages_zh_TW.properties
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
jar/com/sun/xml/bind/marshaller/Messages.properties
```

\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_ko.properties  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/Messages\_ko.properties  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/Messages.properties  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_fr.properties  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/Messages\_fr.properties  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/Messages\_es.properties  
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\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/GenericArrayTypeImpl.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/annotation/XmlIsSet.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ElementPropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/ClassFactory.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ValuePropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/ReflectionNavigator.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/TypeVisitor.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/Messages.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/TypeInfoSet.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/Messages.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/Util.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/unmarshaller/InfosetScanner.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/LeafInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ReferencePropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/runtime/RuntimeUtil.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/Messages.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/api/EventListener.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/TODO.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/Element.java

\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/MapPropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/BuiltinLeafInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/WildcardTypeImpl.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/annotation/AnnotationReader.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/annotation/AnnotationSource.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/annotation/Locatable.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/WildcardMode.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ErrorHandler.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/ParameterizedTypeImpl.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/TypeRef.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/NonElement.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/DumbEscapeHandler.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/api/impl/NameConverter.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/SecureLoader.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/runtime/Location.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/util/Which.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ElementInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/PropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/annotation/OverrideAnnotationOf.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/api/impl/NameUtil.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/unmarshaller/DOMScanner.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/EnumConstant.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-

jar/com/sun/xml/bind/v2/model/core/MaybeElement.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/runtime/unmarshaller/LocatorEx.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/NonElementRef.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/ClassInfo.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/RegistryInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/TypeInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/schemagen/episode/Bindings.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/schemagen/episode/package-info.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/Ref.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/util/SecureLoader.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/Locatable.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/core/Adapter.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/model/nav/Navigator.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/runtime/IllegalAnnotationException.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/WhiteSpaceProcessor.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/marshaller/CharacterEscapeHandler.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/marshaller/MinimumEscapeHandler.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/schemagen/episode/Klass.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/util/EditDistance.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/util/FlattenIterator.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/v2/schemagen/episode/SchemaBindings.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/marshaller/DataWriter.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-  
jar/com/sun/xml/bind/marshaller/SAX2DOMEx.java

\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/EnumLeafInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/runtime/SwaRefAdapterMarker.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/AttributePropertyInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/WellKnownNamespace.java  
\*  
/opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/PropertyKind.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/WildcardTypeInfo.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/package-info.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/annotation/XmlLocation.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/ID.java

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Found in path(s):

\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/marshaller/NoEscapeHandler.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/impl/ModelBuilderI.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/nav/package-info.java  
\* /opt/cola/permits/1334904536\_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/util/ArrayInfoUtil.java

# 1.552 istack-commons 3.0.5

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Found in path(s):

\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: istack common utility code

Implementation-Title: istack common utility code runtime

Bundle-License: [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html), [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html)

Bundle-SymbolicName: com.sun.istack.commons-runtime

Implementation-Version: 3.0.5

Built-By: build

Bnd-LastModified: 1486772850426

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: com.sun.istack

Bundle-DocURL: <http://www.oracle.com/>

Bundle-Vendor: Oracle Corporation

Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,org.xml.sax,org.xml.sax.helpers

Require-Capability: osgi.ee:filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.2.0.201605172007

Implementation-Vendor: Oracle Corporation  
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea  
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log  
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"  
Bundle-Name:  
istack common utility code runtime  
Bundle-Version: 3.0.5  
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:  
27:24+0100  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_112

Found in path(s):  
\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-  
INF/MANIFEST.MF

# 1.553 cast 1.5.0

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## 1.555 zstd-jni 1.5.2-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.2-1.dylib;osname=MacO

S;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni-1.5.2-1.

dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/lib

zstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libz

std-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libz

td-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd

-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1

.5.2-1.so;osname=Linux;processor=arm,

linux/i386/libzstd-jni-1.5.2-1.

so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;o

sname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osna

me=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname

=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=L

inux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;

processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;process

or=x86

Bundle-SymbolicName: com.github.luben.zstd-jni  
Bundle-Vendor: com.github.luben  
Bundle-Version: 1.5.2.1  
Created-By: 11.0.14 (Debian)  
Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.luben.zstd.util;version="1.5.2.1"  
Implementation-Title: zstd-jni  
Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.5.2-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86\_64,darwin.armch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11.0))"  
"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.5.2-1  
Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1337889408\_1654234488.39181/0/zstd-jni-1-5-2-1-jar/META-INF/MANIFEST.MF

# 1.556 keyutils 1.6-6ubuntu1.1

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<one line to give the program's name and a brief idea of what it does.>



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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Version 2.1, February 1999

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```
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Copyright (C) <year> <name of author>
```

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```

```
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Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
```

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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

# 1.557 go-openapi-jsonreference 0.20.0

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# 1.558 e2fsprogs 1.45.5-2ubuntu1.1

## 1.558.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et  
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)  
#
```

```
all:: image
```

```
real-subdirs:: Makefile  
@echo " MKDIR pic"  
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)  
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

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- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell           2005
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Gadi Oxman, August 1995

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```

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Theodore Ts'o  
23-June-2007

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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

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# 1.559 google-cloud-go 0.34.0

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package compute

import (
    "bytes"
```

```

"context"
"fmt"
"io/ioutil"
"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.

```

```

type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with

```

```

method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts :=
    defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax",
        gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil,
        err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    })
}

```

```

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err
:= c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl,

```



```

err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
}

```

```

    return nil
  }, opts...)
  if e != nil {
    return nil, e
  }
  return resp, nil
}
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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var

```

```
newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get         []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert      []gax.CallOption  
    List        []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete:      []gax.CallOption{ },  
        Get:          []gax.CallOption{ },  
        GetIamPolicy: []gax.CallOption{ },  
        Insert:       []gax.CallOption{ },  
        List:         []gax.CallOption{ },  
        SetIamPolicy: []gax.CallOption{ },  
        TestIamPermissions: []gax.CallOption{ },  
    }  
}
```

```
//
```

```
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
```

```
type internalLicensesClient interface {  
    Close() error  
    setGoogleClientInfo(...string)  
    Connection() *grpc.ClientConn  
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)  
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)  
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,  
    error)  
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)  
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator  
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,  
    error)  
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)  
    (*computepb.TestPermissionsResponse, error)  
}
```

```
//
```

```
LicensesClient is a client for interacting with Google Compute Engine API.
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with  
method calls.
```

```
//
```

```

// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the
// API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party

```

```

partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or
windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context,
    req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

```

```

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(),
        opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

```

```

}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

```

```

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c: c.operationClient,
proto: resp,

```



```

    project: req.GetProject(),
  },
}
return
op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
    true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }

        buf, err := ioutil.ReadAll(httpRsp.Body)

```

```

if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource
// is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
}

```

```

}

return nil
}, opts...)
if e != nil {
return nil, e
}
op := &Operation{
&globalOperationsHandle{
c:
c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string,
error) {
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
}

```

```

}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess",
fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }
}

```

```

    return nil
  }, opts...)
  if e != nil {
    return nil, "", e
  }
  it.Response
= resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
    return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
  m := protojson.MarshalOptions{AllowPartial: true}
  body := req.GetGlobalSetPolicyRequestResource()
  jsonReq, err := m.Marshal(body)
  if
err != nil {
    return nil, err
  }

  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

  // Build HTTP headers from client and context metadata.
  md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

```

```

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.



```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial:
true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context,
settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
    })
}

```

```

    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    //
    // Calling Next() or InternalFetch() updates this value.
    Response interface{ }

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {

```

```

var item *computepb.License
if err := it.nextFunc(); err !=
nil {
return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}
// Copyright 2022 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
// https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
"context"

compute "cloud.google.com/go/compute/apiv1"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {

```

```

// TODO: Handle error.
}
defer c.Close()

// TODO: Use
client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
//

```

TODO: Use resp.

\_ = resp

}

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package compute\_test

import (

"context"

compute "cloud.google.com/go/compute/apiv1"

"google.golang.org/api/iterator"

computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"

)

func ExampleNewLicensesRESTClient() {

ctx := context.Background()

c, err := compute.NewLicensesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

}

defer

c.Close()

// TODO: Use client.

\_ = c

}

func ExampleLicensesClient\_Delete() {

ctx := context.Background()

c, err := compute.NewLicensesRESTClient(ctx)

if err != nil {

// TODO: Handle error.

}

defer c.Close()

```

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    -
    = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.

```

```

}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO:
        Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()

```

```

if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err !=
    nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```
}  
// TODO: Use resp.  
_ = resp  
}
```

## 1.560 stackexchange-wmi 0.0.0- 20190523213315-cbe66965904d

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## 1.561 x-lint 0.0.0-20201208152925- 83fdc39ff7b5

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# 1.562 nmccclain-ldap 0.0.0-20191021200707-3b3b69a7e9e3

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# 1.564 gopherjs 0.0.0-20181017120253-0766667cb4d1

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## 1.565 coreos-bbolt 1.3.6

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# 1.570 python-certifi 2021.05.30

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.571 activation-api 1.2.2

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Gocheck - A rich testing framework for Go

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
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org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>



- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

- org.apache.taglibs:taglibs-standard-spec
- org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

- org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.578 jetty-continuation 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.579 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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jloup@zip.org        madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

# 1.580 prometheus-common 0.37.0

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#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.585 sqlx 1.3.5

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## 1.587 go-colorable 0.1.13

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Ty Coon, President of Vice

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## 1.591 html5lib 1.1

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## 1.593 webencodings 0.5.1

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python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
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- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration. The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

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```
from setuptools import setup, find_packages
import io
from os import path
import re
```

```
VERSION = re.search("VERSION = '([^\']+)"', io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
```

```

encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
:: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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\*\*\*\*

```
webencodings.mklabels
```

```
~~~~~
```

Regenerate the webencodings.labels module.

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"""

```
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen
```

```
def assert_lower(string):
    assert string == string.lower()
    return string
```

```
def generate(url):
```

```
    parts = ["\
```

"""

```
webencodings.labels
```

```
~~~~~
```

Map encoding labels to their name.

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"""

```
# XXX Do not edit!
```

```
# This file is automatically generated by mklabels.py
```

```
LABELS = {
```

```
"""
```

```
    labels = [
```

```
        (repr(assert_lower(label)).rstrip('u'),
```

```
         repr(encoding['name']).rstrip('u'))
```

```
        for category in json.loads(urlopen(url).read().decode('ascii'))
```

```
        for encoding in category['encodings']
```

```
        for label in encoding['labels']]
```

```
    max_len = max(len(label) for label, name in labels)
```

```
    parts.extend(
```

```
        ' %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
```

```
        for label, name in labels)
```

```
    parts.append('}')
```

```
    return ".join(parts)
```

```
if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/\_\_init\_\_.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x\_user\_defined.py

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard  
<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

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\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set



of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python

:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

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\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.594 pep517 0.12.0

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

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## 1.596 idna 3.3

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## 1.597 python-certifi 2021.10.08

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ca-bundle.crt -- Bundle of CA Root Certificates

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.598 protobuf 1.27.1

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# 1.602 kustomize-api 0.12.1

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# 1.604 kustomize-kyaml 0.13.9

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\* /opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-jar/com/marcnuri/yakc/api/auditregistration/AuditregistrationApi.java

\* /opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-jar/com/marcnuri/yakc/api/apiextensions/v1/ApiextensionsV1Api.java

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/opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-jar/com/marcnuri/yakc/api/policy/v1beta1/PolicyV1beta1Api.java

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/opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-jar/com/marcnuri/yakc/api/discovery/DiscoveryApi.java

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jar/com/marcnuri/yakc/api/node/v1alpha1/NodeV1alpha1Api.java  
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jar/com/marcnuri/yakc/api/authorization/v1beta1/AuthorizationV1beta1Api.java  
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/opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-  
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jar/com/marcnuri/yakc/api/admissionregistration/AdmissionregistrationApi.java  
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\* /opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-  
jar/com/marcnuri/yakc/api/node/NodeApi.java  
\* /opt/cola/permits/1402703792\_1661804572.3397658/0/kubernetes-api-0-0-0-sources-  
jar/com/marcnuri/yakc/api/admissionregistration/v1beta1/AdmissionregistrationV1beta1Api.java  
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jar/com/marcnuri/yakc/api/storage/v1alpha1/StorageV1alpha1Api.java  
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jar/com/marcnuri/yakc/api/coordination/v1beta1/CoordinationV1beta1Api.java  
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## 1.613 kubernetes-cliruntime 0.0.0

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# 1.614 packaging 16.8

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.616 pyyaml 6.0

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\* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10>  
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\* Source: <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12>

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\* /opt/cola/permits/1417007534\_1663222283.6427658/0/simpleclient-0-16-0-sources-jar/io/prometheus/client/DoubleAdder.java

## 1.620 simpleclient\_tracer\_otel 0.16.0

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Manifest-Version: 1.0

Bnd-LastModified: 1655327871630

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: The Prometheus Java Suite: Client Metrics, Exposition, and Examples

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry

Bundle-SymbolicName: io.prometheus.simpleclient\_tracer\_otel

Bundle-Version: 0.16.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.exemplars.tracer.otel;uses:="io.prometheus.client.exemplars.tracer.common";version="0.16.0"

Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prometheus.client.exemplars.tracer.common;version="[0.16,1)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1417007497\_1663222176.7797983/0/simpleclient-tracer-otel-0-16-0-jar/META-INF/MANIFEST.MF

## 1.621 simpleclient-common 0.16.0

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# 1.622 simpleclient-httpserver 0.16.0

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# 1.623 simpleclient\_tracer\_otel\_agent 0.16.0

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# 1.624 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0

Bnd-LastModified: 1655327979490

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: Collectors of data from Java Hotspot.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Simpleclient Hotspot

Bundle-SymbolicName: io.prometheus.simpleclient\_hotspot

Bundle-Version: 0.16.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client";version="0.16.0"

Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1)",javax.management,javax.management.openmbean

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1417007560\_1663222261.4278126/0/simpleclient-hotspot-0-16-0-jar/META-INF/MANIFEST.MF

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# 1.625 term 0.0.0-20220808134915-39b0c02b01ae

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the library is built.

## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.627 hibernate-validator 6.2.5.Final

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## 1.628 scala-logging\_2.13 3.9.4

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## 1.629 go-md2man 2.0.2

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## 1.632 x-tools 0.1.12

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```

```
package hooks
```

```
import (  
    "bytes"  
    "io/ioutil"  
    "os/exec"  
    "runtime"  
    "testing"
```

```
    "golang.org/x/tools/internal/testenv"  
)
```

```
func TestLicenses(t *testing.T) {  
    // License text differs for older Go versions because staticcheck isn't  
    // supported for those versions.  
    testenv.NeedsGo1Point(t, 17)
```

```
    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {  
        t.Skip("generating licenses only works on Unixes")  
    }
```

```
    tmp, err := ioutil.TempFile("", "")  
    if err != nil {  
        t.Fatal(err)  
    }  
    tmp.Close()
```

```
    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {  
        t.Fatalf("generating licenses failed: %q, %v", out, err)  
    }
```

```
    got, err := ioutil.ReadFile(tmp.Name())
```



```
if err != nil {
    t.Fatal(err)
}
want, err := ioutil.ReadFile("licenses.go")
if err != nil {
    t.Fatal(err)
}
if !bytes.Equal(got, want) {
    t.Error("combined
license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
}
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```

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//go:build go1.18

// +build go1.18

// Package copyright checks that files have the correct copyright notices.

```
package copyright
```

```
import (  
    "go/ast"  
    "go/parser"  
    "go/token"  
    "io/fs"  
    "io/ioutil"  
    "path/filepath"  
    "regexp"  
    "strings"  
)
```

```
func checkCopyright(dir string) ([]string, error) {  
    var files []string  
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {  
        if err != nil {  
            return err  
        }  
        if d.IsDir() {  
            // Skip directories like ".git".  
            if strings.HasPrefix(d.Name(), ".") {  
                return filepath.SkipDir  
            }  
            // Skip any directory that starts with an underscore, as the go  
            // command would.  
            if strings.HasPrefix(d.Name(), "_") {  
                return filepath.SkipDir  
            }  
        }  
        return nil  
    })  
    needsCopyright, err := checkFile(dir, path)  
    if err != nil {  
        return err  
    }  
    if needsCopyright {  
        files  
    = append(files, path)  
    }  
    return nil  
})  
return files, err  
}
```

```
var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
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license that can be found in the LICENSE file.`)
```

```

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, ".go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers
    on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
    shouldAddCopyright := true
    for _, c := range parsed.Comments {
        // The copyright should appear before the package declaration.
        if c.Pos() > parsed.Package {
            break
        }
        if copyrightRe.MatchString(c.Text()) {
            shouldAddCopyright = false
            break
        }
    }
    return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

```

```

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
            // Check if comment is at the beginning of the line in source.
            if pos := fset.Position(comment.Slash); pos.Column == 1 {
                return true
            }
        }
    }
    return
    false
}

```

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//go:generate ./gen-licenses.sh licenses.go

package hooks

```
const licensesText = `  
-- github.com/BurntSushi/toml COPYING --
```

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```

```
//go:build go1.18\n// +build go1.18
```

```
package copyright
```

```
import (\n    "os"\n    "path/filepath"\n    "strings"\n    "testing"\n)
```

```
func TestToolsCopyright(t *testing.T) {\n    cwd, err := os.Getwd()\n    if err != nil {\n        t.Fatal(err)\n    }\n}
```



```

}
tools := filepath.Dir(cwd)
if !strings.HasSuffix(filepath.Base(tools), "tools") {
    t.Fatalf("current working directory is %s, expected tools", tools)
}
files, err := checkCopyright(tools)
if err != nil {
    t.Fatal(err)
}
if len(files) > 0 {
    t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
}
}
}

```

## 1.633 ecj 3.26.0

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* IBM Corporation - initial API and implementation

```

```

* Stephan Herrmann - Contributions for

```

```

*     bug 349326 - [1.7] new warning for missing try-with-resources

```

```

*     bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

```

```

*     bug 186342 - [compiler][null] Using annotations for null checking

```

```

*     bug 358903 - Filter practically unimportant resource leak warnings

```

```

*     bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject

```

```

into account

```

```

*     bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

```

```

*     Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

```

```
Collection#remove(Object) et al.

```

```

*     Jesper S Moller <jesper@selskabet.org> - Contributions for

```

```

*     Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

```

```

*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for

```

```

*         bug 386692 - Missing "unused" warning on "autowired" fields

```

```

*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for

```

```

*         bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown

```

when using MethodSource

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java

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\* wharley@bea.com - initial API and implementation  
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\* IBM Corporation - Java 8 support  
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jar/org/eclipse/jdt/internal/compiler/env/ISourceModule.java
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jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchFileImpl.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java  
\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java  
\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java

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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

\* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
*/
```

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```
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java  
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class  
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries  
* Bug 354536 - compiling package-info.java still depends on the order of compilation units  
* Bug 349326 - [1.7] new warning for missing try-with-resources  
* Bug  
358903 - Filter practically unimportant resource leak warnings  
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class  
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables  
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource  
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class  
*/
```



- \* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes
- \* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- \* Bug 473178

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Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java

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- \* Stephan Herrmann - Contributions for
- \* bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 383690 - [compiler] location of error re uninitialized final field should be aligned
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions

for

\* bug 386692 - Missing "unused" warning on "autowired" fields  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java  
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\* Stephan Herrmann - Contribution for

\* Bug 440474 - [null] textual encoding of external null annotations

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jar/org/eclipse/jdt/internal/compiler/apt/util/JrtFileSystem.java  
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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* bug 349326 - [1.7] new warning for missing try-with-resources  
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
* Bug 392099  
- [1.8][compiler][null] Apply null annotation on types for null analysis  
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations  
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface  
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument  
annotations  
* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled
```

- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
  - \* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
  - \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
  - \* Bug 400874 - [1.8][compiler]
- Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
  - \* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
  - \* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
  - \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
  - \* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
  - \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
  - \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
  - \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
  - \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
  - \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  - \* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
  - \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  - \* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
  - \* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
  - \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
  - \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java

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\* Stephan Herrmann - Contribution for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 370930 - NonNull annotation not considered for enhanced for loops

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 393719 - [compiler] inconsistent warnings on iteration variables
  - \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
  - \* Jesper S Moller - Contribution for
  - \* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
  - \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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jar/org/eclipse/jdt/internal/compiler/ast/Argument.java

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*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*     Bug 473178
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 185682 - Increment/decrement operators mark local variables as read
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 392384 - [1.8][compiler][null] Restore nullness
info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*****/

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Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     bug 407191 - [1.8] Binary access support for type annotations
*   Stephan Herrmann - Contribution for
*     Bug 440474 - [null] textual encoding of external null annotations
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*   Stephan Herrmann - Contribution for
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ContinueStatement.java
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\* IBM Corporation - Fix for bug 328575  
\* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementAnnotatedWith()  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java  
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jar/org/eclipse/jdt/internal/compiler/apt/model/ModuleElementImpl.java  
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  - \* Stephan Herrmann - Contributions for
    - \* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
    - \* bug 349326 - [1.7] new warning for missing try-with-resources
    - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
    - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 415790
    - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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      - \* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
      - \* bug 186342 - [compiler][null] Using annotations for null checking
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/Compiler.java

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*   Stephan Herrmann - Contributions for
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 265744 - Enum switch should warn about missing default
*     bug 374605 - Unreasonable warning for enum-based switch statements
*     bug 381443
*   - [compiler][null] Allow parameter widening from @NonNull to unannotated
*     Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary
*     Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*****/
```

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```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
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jar/org/eclipse/jdt/internal/compiler/AbstractAnnotationProcessorManager.java
```

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBindingSetWrapper.java  
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\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds  
\* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard  
\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker  
hint from applicability analysis  
\* Bug 456924 - StackOverflowError during compilation  
\* Bug 462790 - [null] NPE in Expression.computeConversion()  
\* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 388795 - [compiler] detection of name clash depends on order of super interfaces

\* bug 388739 - [1.8][compiler] consider default methods when detecting whether

a class needs to be declared abstract

\* bug 390883 - [1.8][compiler] Unable to override default method

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods

\* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method

\* bug 403867 - [1.8][compiler] Suspect error about duplicate default methods

\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

\* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795

\* bug 409473 - [compiler] JDT cannot compile against JRE 1.8

\* Bug 420080 - [1.8] Overridden Default method is reported as duplicated

\* Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed

\* Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.

\* Bug 440773 - [1.8][null]DefaultLocation.RETURN\_TYPE erroneously affects method parameters in

@NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 446442 - [1.8] merge null annotations from super methods

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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*   Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
*     bug 317046 - Exception during debugging when hover mouse over a field  
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class  
files  
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
*     Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations  
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
*     Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument  
*     Bug 426792 - [1.8][inference][impl] generify new type inference engine  
*     Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
```



```

* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 265744 - Enum switch should warn about missing default
*     bug 374605 - Unreasonable warning for enum-based switch statements
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
    should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverflowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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jar/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java

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*   Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*****/

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*   Stephan Herrmann - Contribution for  
*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations  
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
*     Bug 473178  
*/
```

Found in path(s):

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*   tyeung@bea.com - initial API and implementation  
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java

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jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java  
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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*   wharley@bea.com - derived base class from BatchMessengerImpl  
*/
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*   Stephan Herrmann - initial API and implementation
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*     Bug 473178
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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*   Perry James - nullStatus method improvement (165346)
*   Stephan Herrmann - Contribution for
*     bug 383368 - [compiler][null] syntactic null analysis for field references
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jar/org/eclipse/jdt/internal/compiler/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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jar/org/eclipse/jdt/internal/compiler/util/Sorting.java  
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* Contributors:
*   Frits Jalvingh - fix for bug 533830.
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*   Stephan Herrmann - Contribution for
*   Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*   Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*****/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

@T Z;                type => Z annotations => [[@T]]
  @T Y.@T Z          type => Z annotations => [[@T][@T]]
  @T X.@T Y.@T Z    type => Z annotations => [[@T][@T][@T]]
  java.lang.@T X.@T Y.@T Z    type => Z annotations => [[[]][@T][@T][@T]]
  in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
  layout for proper attribution.
*/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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*   IBM Corporation - initial API and implementation
*   Erling Ellingsen - patch for bug 125570
*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Sebastian Zarnekow - Contribution for
*   Bug 544921 - [performance] Poor performance with large source files
*****/

```

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in path(s):
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jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 292478 - Report potentially null across variable assignment

\* bug 335093 - [compiler][null] minimal hook for future null annotation support

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug 370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 430150 - [1.8][null] stricter checking against type variables

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Jesper S Moller - Contributions for

\* Bug 378674 - "The method can be declared as static" is wrong

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\* Bug 529556 - [18.3] Add content assist support for 'var' as a type

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

\* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java

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*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 382353 - [1.8][compiler] Implementation property modifiers should
be accepted on default methods.
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*     bug 378674 - "The method can be declared as static" is wrong
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     Bug 427438 - [1.8][compiler] NPE at

```

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 367203 - [compiler][null] detect assigning null to nonnull argument

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 365531 - [compiler][null] investigate alternative strategy for internally

encoding nullness defaults

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this

location

\* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

\* Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'

\* Bug 471611 - Error on hover on call to generic method with null annotation

\* Jesper Steen Moller - Contributions for

\* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java

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\* Stephan Herrmann - Contribution for bug 295551

\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Frits Jalvingh - contributions for bug 533830.

\* Red Hat Inc. - add module-info Javadoc support

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 *     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 */
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*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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 *   Jesper S Moller - Contributions for
 *     bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
 *     Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
 expressions
 *     Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
 *   Stephan Herrmann - Contribution for
 *     bug 402028 - [1.8][compiler] null analysis for reference
 expressions
 *     bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
 *     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *     Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
 */
```

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427438
- [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- \* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 438945 - [1.8] NullPointerException  
InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for  
Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*\*\*\*\*/

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\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.  
\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\*\*\*\*\*

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

\* bug 403086 - [compiler][null] include the effect of 'assert'

in syntactic null analysis for fields

\*\*\*\*\*/

Found in path(s):

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*****/
```

Found  
in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java  
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*   Stephan Herrmann - Contributions for
*     bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*     bug 401030 - [1.8][null] Null analysis support for lambda methods.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*****/
```

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in path(s):  
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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators

mark local variables as read

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

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  - \* bug 349326 - [1.7] new warning for missing try-with-resources
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  - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - \* bug 358903 - Filter practically unimportant resource leak warnings
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
  - \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
  - \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
  - \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
  - \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug
  - 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
  - \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
  - \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
  - \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
  - \* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 431581 - Eclipse compiles what it should not
  - \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
  - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
- \* Sebastian Zarnekow - Contributions for
- \* bug 544921 - [performance] Poor performance with large source files

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\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda  
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- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* Bug 417758 - [1.8][null] Null safety compromise during array creation.
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425783 - An  
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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 \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
 \* bug 185682 - Increment/decrement operators mark local variables as read  
 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
 \* bug 345305 - [compiler][null]  
 \* Compiler misidentifies a case of "variable can only be null"  
 \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first  
 field  
 \* Bug 458396 - NPE in CodeStream.invoke()  
 \* Jesper S Moller - Contributions for  
 \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment  
 \* bug 331649 - [compiler][null] consider null annotations for fields  
 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check  
 \* Jesper S Moller <jesper@selskabet.org> - Contributions for  
 \* bug 378674 - "The method can be declared as static" is wrong  
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- \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
- \* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 358903 - Filter practically unimportant resource
- leak warnings
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424727 - [compiler][null] NullPointerException in  
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
- \* Bug 424710  
- [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- \* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive  
code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
- \* Till Brychcy - Contributions for
- \* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\* Bug 473178  
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\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor  
\* bug 370639 - [compiler][resource] restore the default for resource leak warnings  
\* bug 388996 - [compiler][resource] Incorrect  
'potential resource leak'  
\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

checking

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 - [1.8][compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload

context

- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic

bridge method

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java

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\* Stephan Herrmann - Contributions for

\* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

checking

- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 370639 - [compiler][resource]

restore the default for resource leak warnings

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 379784 - [compiler] "Method can be static" is not getting reported

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop

\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

\* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -

return inside for loop)

\* Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java  
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* Stefan Xenos (Google) - Initial implementation  
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* Walter Harley - initial API and implementation  
* IBM Corporation - fix for 342598, 382590  
* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555  
***/
```

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 \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for  
 \* bug 185682 - Increment/decrement operators mark local variables as read  
 \* bug 331649 - [compiler][null] consider null annotations for fields  
 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null  
 \* Bug 400874 - [1.8][compiler]  
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
 \* Bug 458396 - NPE in CodeStream.invoke()  
 \* Jesper S Moller - Contributions for  
 \* Bug 378674 - "The method can be declared as static" is wrong  
 \* Robert Roth <robert.roth.off@gmail.com> - Contributions for  
 \* Bug 361039 - NPE in FieldReference.optimizedBooleanConstant  
 \*\*\*\*\*/

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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java  
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 \* Stephan Herrmann - Contribution for  
 \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations  
 \*\*\*\*\*/

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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java  
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\* Stephan Herrmann - Contributions for

\* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

\* Bug 388630 - @NonNull diagnostics at line 0

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 424727 - [compiler][null] NullPointerException

in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

\* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

\* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for

\* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

\* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java

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\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"

\* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression

- \* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
  - \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
  - \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    - \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
  - \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
  - \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*\*\*\*\*/

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 \* IBM Corporation - Bug fixes  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

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\* Jesper Steen Moller - Contributions for:

\* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container  
\*\*\*\*\*/

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 417758 - [1.8][null] Null safety compromise during array creation.

\* Bug

427163 - [1.8][null] bogus error "Contradictory null specification" on varargs  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)  
\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java  
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\* bug 185682 - Increment/decrement operators mark local variables as read  
\* bug 331649 - [compiler][null] consider null annotations for fields  
\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.  
\* Bug 447088 - [null] @Nullable on fully qualified field type is ignored  
\* Bug 435805 - [1.8][compiler][null]  
Java 8 compiler does not recognize declaration style null annotations  
\* Bug 458396 - NPE in CodeStream.invoke()  
\* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning  
\* Till Brychcy - Contribution for  
\* bug 467094 - [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.  
\*\*\*\*\*/

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\*     Bug 407191 - [1.8] Binary access support for type annotations  
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\* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java  
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\* Jesper S Moller - Contributions for  
\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment  
\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)  
\* Stephan Herrmann - Contribution for  
\* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
\* Bug 392099  
- [1.8][compiler][null] Apply null annotation on types for null analysis  
\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"  
\* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType  
\* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression  
\* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation  
\* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType  
\* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error  
\* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.  
\* Bug 426563 - [1.8] AIOOBE when method with error  
invoked with lambda expression as argument  
\* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"  
\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>  
\* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint  
\* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument  
\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)  
\* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac



- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  - \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
  - \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  - \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java

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\* Walter Harley - Patch for ensuring the parent folders are created

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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\* Stephan Herrmann - Contribution for  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java  
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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking  
\*\*\*\*\*/

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\* David Foerster - patch for toUpperCase as described in [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=153125](https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125)

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

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*   Jesper S Moller - Contributions for
*     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*     Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
*   - Contributions for
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*     Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*     Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*     Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
*     Bug 434556 - Broken class file generated for incorrect annotation usage
*     Bug 442416
*   - $deserializeLambda$ missing cases for nested lambdas
*   Stephan Herrmann - Contribution for
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Olivier Tardieu tardieu@us.ibm.com - Contributions for
*     Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
*****/

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Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java  
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jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java  
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jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java  
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jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java  
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jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java  
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/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java  
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jar/org/eclipse/jdt/internal/compiler/codegen/Label.java  
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jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java  
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jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java  
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jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java  
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jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java  
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jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java  
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jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java  
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jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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*     bug 331649 - [compiler][null] consider null annotations for fields
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 458396 - NPE in CodeStream.invoke()
*****/
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\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
*
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java

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*       bug 332637 - Dead Code detection removing code that isn't dead
*       bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource
leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*   bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*   Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*   Jesper Steen Moller -
Contributions for
*   bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
*****/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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\* Nick Teryaev - fix for bug ([https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=40752](https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752))

\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug

383368 - [compiler][null] syntactic null analysis for field references

\* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 430150 - [1.8][null] stricter checking against type variables

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style

null annotations

\* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java

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 \* bug 367203 - [compiler][null] detect assigning null to nonnull argument  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
 \* bug 382353 - [1.8][compiler] Implementation property modifiers  
 should be accepted on default methods.  
 \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* bug 388281 - [compiler][null] inheritance of null annotations as an option  
 \* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument  
 annotations  
 \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
 \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize  
 declaration style null annotations  
 \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
 \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
 jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java  
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*     bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper Steen Moller - Contributions for
*     Bug 412150 [1.8] [compiler]
*     Enable reflected parameter names during annotation processing
*****/

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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 385626 - @NonNull fails across
*     loop boundaries
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

```

- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Jesper S Moller - Contributions for
  - \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
- \*\*\*\*\*/

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

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- \* IBM Corporation - fix for 342470
- \* IBM Corporation - fix for 342598
- \* IBM Corporation - Java 8 support

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\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

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\* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment  
\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\* bug  
392862 - [1.8][compiler][null] Evaluate null annotations on array types  
\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations  
\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled  
\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
\* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations  
\* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking  
\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
\* Bug 416190 - [1.8][null]  
detect incompatible overrides due to null type annotations  
\* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown  
\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
\* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type  
\* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations  
\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
\* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)  
\* Bug 457079 - Regression: type inference  
\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation  
\* Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType  
\* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file  
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\* Bug 458396 - NPE in CodeStream.invoke()

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\* bug 292478 - Report potentially null across variable assignment

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field

references

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

checking

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 426996 - [1.8][inference]

try to avoid method Expression.unresolve()?

\* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double

\* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

\* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/Expression.java

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\* wharley@bea.com - initial API and implementation

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchMessengerImpl.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/IQualifiedTypeResolutionListener.java

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- \* IBM Corporation - fix for 342598

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- \* wharley@bea.com - initial API and implementation
- \* (originally in org.eclipse.jdt.apt.core)
- \* IBM Corporation - Bug 513790

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ManyToMany.java



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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
*       null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*   Jesper S Møller <jesper@selskabet.org> - Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*****/

```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/lookup/PolymorphicMethodBinding.java

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\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 370639 - [compiler][resource] restore the

default for resource leak warnings

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424415 - [1.8][compiler] Eventual

resolution of ReferenceExpression is not seen to be happening.

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

\* Till Brychcy - Contributions for

\* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java  
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\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 295551 - Add option to automatically promote all warnings to errors

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug

370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 366063 - Compiler should not add synthetic @NonNull annotations

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

\* Jesper Steen Moller - Contributions for

\* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code

\* bug 407297 - [1.8][compiler] Control generation of parameter names by option

\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.java

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 \* bug 349326 - [1.7] new warning for missing try-with-resources  
 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 364890 - BinaryTypeBinding should use char constants from Util  
 \* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.  
 \* bug 358903 - Filter practically unimportant resource leak warnings  
 \* bug  
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
 \* bug 388800 - [1.8][compiler] detect default methods in class files  
 \* bug 388281 - [compiler][null] inheritance of null annotations as an option  
 \* bug 331649 - [compiler][null] consider null annotations for fields  
 \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
 \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled  
 \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
 \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource  
 \* Bug 392245 - [1.8][compiler][null] Define whether  
 / how @NonNullByDefault applies to TYPE\_USE locations  
 \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
 \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.  
 \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
 \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type  
 \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations  
 \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation  
 \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull  
 \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
 \* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)  
 \* Bug 454182 - Internal compiler error when using  
 1.8 compliance for simple project  
 \* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file  
 \* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning  
 \* Jesper Steen Moller - Contributions for  
 \* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing  
 \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable  
 \* Sebastian Zarnekow - Contributions for  
 \* bug 544921 - [performance] Poor performance with large source files  
 \* Alexander Lehmann - Contributions for  
 \* bug 566258 - Intermittent NPE in APT RoundDispatcher  
 \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java

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\* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

\* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CharOperation.java

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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jar/org/eclipse/jdt/internal/compiler/ast/JavadocArraySingleTypeReference.java

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\* Contributors:

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\* IBM Corporation - fix for 342598

\* IBM Corporation - Java 8 support

\* het@google.com - Bug 427943 - The method

org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

\*\*\*\*\*/

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jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 292478 - Report potentially null across variable assignment

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

\* Bug 421035 - [resource]

False alarm of resource leak warning when casting a closeable in its assignment

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\* Igor Fedorenko - extracted from ElementsImpl

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\* IBM Corporation - initial API and implementation  
\* Stephan Herrmann - Contributions for  
\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE  
\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields  
\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
\* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AND\_AND\_Expression.java

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*   Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*     bug 292478 - Report potentially null across variable assignment
*     bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*     bug 354554 - [null] conditional with redundant condition
*     yields weak error message
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*     Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*     Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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*   Stephan Herrmann - Contribution for
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*     bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****

```

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*     bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Stephan Herrmann - Contribution for
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 423504 - [1.8] Implement "18.5.3
Functional Interface Parameterization Inference"
*     Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*     Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*     Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*     Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*     Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*     Bug 446442 - [1.8] merge null annotations from super methods
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java  
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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)

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\* Till Brychcy - Contributions for  
\* Bug 467482 - TYPE\_USE null annotations: Incorrect "Redundant null check"-warning  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* tyeung@bea.com - initial API and implementation  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

Found in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java  
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*     bug 331649 - [compiler][null] consider null annotations for fields
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*   Jesper S Moller - Contributions for
*     Bug 378674 - "The method can be declared as static" is wrong
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

\*

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java

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jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax  
\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* Jesper S Moller <jesper@selskabet.org> - Contributions for  
\* bug 378674 - "The method can be declared as static" is wrong  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java  
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\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 416182 - [1.8][compiler][null]  
Contradictory null annotations not rejected

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java  
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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 331649 - [compiler][null] consider null annotations for fields

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations

after bug 392099

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location

\* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

\* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)

\* Andy Clement (GoPivotal,

Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

\* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped  
\* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type  
\* Jesper S Moller <jesper@selskabet.org> - Contributions for  
\* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable  
\* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type  
\* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container  
\* Bug 419209 - [1.8] Repeating container annotations  
should be rejected in the presence of annotation it contains

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\* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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\* Matt McCutchen - partial fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=122995](https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995)

- \* Karen Moore - fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=207411](https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411)
- \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  - bug 185682 - Increment/decrement operators mark local variables as read
  - bug 186342 - [compiler][null] Using annotations for null checking
  - bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - bug 374605 - Unreasonable warning for enum-based switch statements
  - bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
  - bug 393719 - [compiler] inconsistent warnings on iteration variables
  - Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
  - Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
  - Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
  - Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
  - Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - Bug 426366
- [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 427282 - [1.8][compiler] AIOOB (-1) at
 

```
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
```

  - Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
  - Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs
  - Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
  - Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
  - Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  - Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
  - Bug 446442 - [1.8] merge null annotations from super methods
  - Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- \* Jesper S Moller - Contributions for
  - bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
  - bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  - bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  - bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
  - bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Till Brychcy - Contributions for
  - bug 467094 - [1.8][null] TYPE\_USE NullAnnotations of array contents are applied to field.

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* Contributors:
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*   Stephan Herrmann - Contributions for
*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 365835 - [compiler][null] inconsistent error reporting.
*     bug 365519 - editorial cleanup after bug 186342 and bug 365387
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*     bug 401030 - [1.8][null] Null analysis support for lambda
methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions
for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/BatchCompilerRequestor.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java

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jar/org/eclipse/jdt/internal/compiler/ast/ContainerAnnotation.java

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*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 417295 - [1.8][null] Massage type annotated
*     null analysis to gel well with deep encoded type bindings.
*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*****/
```

Found in path(s):

```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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*   wharley@bea.com - initial API and implementation
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*     bug 383368 - [compiler][null] syntactic null analysis for field references
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*     Bug
422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java

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*   IBM Corporation - initial API and implementation

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*   Stephan Herrmann - Contributions for

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```

*     bug 335093 - [compiler][null] minimal hook for future null annotation support

```

```

*     bug 349326 - [1.7] new warning for missing try-with-resources

```

```

*     bug 186342 - [compiler][null] Using annotations for null checking

```

```

*     bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs

```

```

*     bug 368546 - [compiler][resource] Avoid remaining false positives found when
compiling the Eclipse SDK

```

```

*     bug 370930 - NonNull annotation not considered for enhanced for loops

```

```

*     bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

```

```

*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

```

```

*     bug 331649 - [compiler][null] consider null annotations for fields

```

```

*     bug 383368 - [compiler][null] syntactic null analysis for field references

```

```

*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```

```

*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

```

```

*     Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

```

- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
  - \* Bug 417758 - [1.8][null] Null safety compromise during array creation.
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - \* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
  - \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Andy Clement - Contributions for
    - \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
    - \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java

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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*****/

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java

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jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJep247Jdk12.java

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up

of bug 401088: Missing warning about redundant null check

\* Bug 440282 - [resource] Resource leak detection false negative with empty finally block

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/Block.java

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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java  
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\* bug 349326 - [1.7] new warning for missing try-with-resources  
\*\*\*\*\*/

- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

\*\*\*\*\*/

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java  
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*   Jesper S Moller - Contributions for  
*     Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
*     Bug 406973 - [compiler] Parse MethodParameters attribute  
*   Andy Clement - Contributions for  
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
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\* Stephan Herrmann - Contribution for

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 458396 - NPE in CodeStream.invoke()

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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\* Stephan Herrmann - contributions for

\* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop

\* bug 186342 - [compiler][null] Using annotations for null checking

- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 365859 - [compiler][null]

distinguish warnings based on flow analysis vs. null annotations

- \* bug 385626 - @NonNull fails across loop boundaries
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 376263 - Bogus "Potential null pointer access" warning
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* bug 406384 - Internal error with I20130413
- \* Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 421035 - [resource]

False alarm of resource leak warning when casting a closeable in its assignment

- \* Jesper S Moller - contributions for
- \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java  
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- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - Contribution for
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Till Brychcy - Contribution for
- \* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

\*\*\*\*\*/



/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type.  
E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not  
needed for correctness, but for annotated object reuse. We provide two alternate ways to  
annotate a type:

Taking parameterized types as an example, a call to getParameterizedType can be made with annotations  
to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first  
and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as  
the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these  
alternate code paths. Unless care is exercised,  
we will end up with duplicate objects (that share  
the same TypeBinding.id => correctness is not an issue, but memory wastage is)  
\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java

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\* Stephan Herrmann - Contribution for

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests

can cope with null annotations enabled

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Bug 434600 - Incorrect null analysis error reporting on type parameters

\* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- \* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
- \* Jesper S Møller <jesper@selskabet.org> - Contributions for
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* bug 529556 - [18.3] Add content assist support for 'var' as a type

\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java

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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

- \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
- Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- \* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException: "Invalid lambda deserialization"

\*\*\*\*\*/

Found in path(s):

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 387612 - Unreachable catch block...exception is never thrown from the try

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 401456 - Code compiles from javac/intellij, but fails from eclipse

\* bug 401271 - StackOverflowError

when searching for a methods references

\* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic

\* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter

\* Bug 413958 - Function override returning inherited Generic Type

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

\* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

\* Bug 424415 - [1.8][compiler]

Eventual resolution of ReferenceExpression is not seen to be happening.

\* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

\* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

- \* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
  - \* Bug 426590 - [1.8][compiler] Compiler error with ternary operator
  - \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
  - \* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
  - \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
  - \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
  - \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
  - \* Bug  
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
  - \* Bug 427218 - [1.8][compiler] Verify error varargs + inference
  - \* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
  - \* Bug 427628 - [1.8] regression : The method \* is ambiguous for the type \*
  - \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
- Bindings
- \* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
  - \* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
  - \* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
  - \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
  - \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
  - \* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
  - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  - \* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
  - \* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
  - \* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
  - \* Jesper S Moller - Contributions for
  - \* Bug 378674 - "The method can be declared as static" is wrong
  - \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
  - \* Andy Clement (GoPivotal, Inc)  
aclement@gopivotal.com - Contributions for
  - \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
  - \* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
  - \* Bug 559618 - No compiler warning for import from same package
  - \* Bug 560630 - No warning on unused import on class from same package
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java

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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/JDTCompilerAdapter.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java  
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\* Stephan Herrmann - Contributions for

\* bug 325755 - [compiler] wrong initialization state after conditional expression

\* bug 320170 - [compiler] [null] Whitebox issues in null analysis

\* bug 292478 - Report potentially null across variable assignment

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection

\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

\*\*\*\*\*/

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 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking  
 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 417295 - [1.8][null]  
 Message type annotated null analysis to gel well with deep encoded type bindings.  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
 \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
 \* Andy Clement - Contributions for  
 \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java  
 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java

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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java  
 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java

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 \* IBM Corporation - initial API and implementation  
 \* Stephan Herrmann - Contributions for  
 \* bug 349326 - [1.7] new warning for missing try-with-resources  
 \* bug 374605 - Unreasonable warning for enum-based switch statements  
 \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.  
 \* bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier  
 \* bug 401030 - [1.8][null] Null analysis support for lambda methods.  
 \* Bug  
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables  
 \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

- \* Jesper S Moller - Contributions for
  - \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\*\*\*\*\*

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365836 - [compiler][null] Incomplete propagation of null defaults.

\* bug 365519 - editorial cleanup after bug 186342

and bug 365387

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 366063 - Compiler should not add synthetic @NonNull annotations

\* bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)

\* bug 386356 - Type mismatch error with annotations and generics

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.

\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled

\* Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

- \* Bug 441693 - [1.8][null]
- Bogus warning for type argument annotated with @NonNull
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
- \* Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Till Brychcy - Contributions for
- \* bug 415269 - NonNullByDefault is not always inherited to nested classes
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
- \* Sebastian Zarnekow - Contributions
- for
- \* bug 544921 - [performance] Poor performance with large source files
- \*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java

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jar/org/eclipse/jdt/internal/compiler/util/Messages.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java  
\*  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java  
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- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \*\*\*\*\*/

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- \* Tom Tromey - patch for readTable(String) as described in [http://bugs.eclipse.org/bugs/show\\_bug.cgi?id=32196](http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196)
- \* Stephan Herrmann - Contributions for
- \* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
- \* bug 374605 - Unreasonable warning for enum-based switch statements
- \* bug 393719 - [compiler] inconsistent warnings on iteration variables
- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
- \* bug 401035 - [1.8] A few tests have started failing recently
- \* Jesper S Moller - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
- \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 393192 - Incomplete type hierarchy with > 10 annotations
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Andy Clement - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

\*

Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java

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\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java

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*     Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations  
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it  
     extends the outer class  
*/
```

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```
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java

\*

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

\* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

\*

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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\* Jesper S Moller - Bug 392671  
\* NPE with a method with explicit this and a following incomplete parameter  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java

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\* Stephan Herrmann - Contributions for  
\* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)  
\* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java

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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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*     Bug 186342 - [compiler][null] Using annotations for null checking  
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
*/
```

Found in path(s):

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\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

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\* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code  
\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics  
\* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype  
\* Jesper S Moller - Contributions for  
\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

- \* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
- \* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
- \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- \* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
- \* Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
- \* Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java  
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\* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ  
\* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ  
\* Frits Jalvingh - fix for bug 533830.  
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
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\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax  
\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* bug 404728 - [1.8]NPE on QualifiedSuperReference error  
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\* Stephan Herrmann - Contribution for

\* bug 331649 - [compiler][null] consider null annotations for fields

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*   Stephan Herrmann - Contribution for
*     bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*     bug 388954 - [1.8][compiler] detect default methods in class files
*     bug 388281 - [compiler][null] inheritance of null annotations as an option
*     bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
to be declared abstract
*     bug 390883 - [1.8][compiler] Unable to override default method
*     bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*     bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*     bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*     bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*     Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*****/

```

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields  
\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
\*\*\*\*\*/

Found in path(s):

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*     bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*     bug 295551 - Add option to automatically promote all warnings to errors
*     bug 359721 - [options] add command line option
for new warning token "resource"
*   bug 365208 - [compiler][batch] command line options for annotation based null analysis
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*   Jesper S Moller - Contributions for
*     bug 407297 - [1.8][compiler] Control generation of parameter names by option
*   Mat Booth - Contribution for bug 405176
*   Frits Jalvingh -
fix for bug 533830.
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/Main.java

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*   Stephan Herrmann - Contributions for

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```

*     bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

```

- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416181 - [1.8][compiler][null] Invalid assignment  
is not rejected by the compiler
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java

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\* Bug 407191 - [1.8] Binary access support for type annotations

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\* Jesper Steen Moeller - Contributions for:  
\* Bug 407297: [1.8][compiler] Control generation of parameter names by option  
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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped  
\* Stephan Herrmann - Contribution for  
\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
\* Bug 429958  
\* - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations  
\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java  
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\* Stephan Herrmann - Contributions for  
\* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points  
\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with  
generics (RuntimeException instead of IOException)  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

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 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields  
 \*\*\*\*\*/

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 \* Nick Teryaev - fix for bug ([https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=40752](https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752))  
 \* Stephan Herrmann - Contributions for  
 \* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE  
 \* bug 349326 - [1.7] new warning for missing try-with-resources  
 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 358903 - Filter practically unimportant resource leak warnings  
 \* bug  
 370639 - [compiler][resource] restore the default for resource leak warnings  
 \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
 \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'  
 \* bug 379784 - [compiler] "Method can be static" is not getting reported  
 \* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.  
 \* bug 388281 - [compiler][null] inheritance of null annotations as an option  
 \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
 \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional  
 \* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?



- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler]
- NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- \* Bug 470958 - [1.8] Unable to convert lambda
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 292478 - Report potentially null across variable assignment,

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:

info cannot be null

\* Bug 458396 - NPE in CodeStream.invoke()

\* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

\* Jesper S Moller - <jesper@selskabet.org> - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\* bug 378674 - "The method can be declared as static" is wrong

\* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  - \* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
  - \* bug 358903 - Filter practically unimportant resource leak warnings
  - \* bug 395002 - Self bound generic class
- doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
- \* Bug 431408 - Java 8 (1.8) generics bug
- \* Bug 435962 - [RC2] StackOverFlowError when building
- \* Bug
  - 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
  - \* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
  - \* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
  - \* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
  - \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
  - \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
  - \* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
  - \* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
  - \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
  - \* Bug 462790 - [null] NPE in Expression.computeConversion()
  - \* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
- \* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
  - \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 467032 - TYPE\_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Stephan Herrmann - Contribution for  
\* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
\*\*\*\*\*/

Found in  
path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java  
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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* Stephan Herrmann - Contribution for  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith  
\*\*\*\*\*/

Found in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java  
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\*  
\* Contributors:  
\* Stephan Herrmann - initial API and implementation  
\*\*\*\*\*/

Found in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ITypeAnnotationWalker.java  
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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* Benjamin Muskalla - Contribution for bug 239066  
\* Stephan Herrmann - Contributions for  
\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used  
\* bug 338303 - Warning about Redundant assignment conflicts with definite assignment  
\* bug 349326 - [1.7] new warning for missing try-with-resources



- \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
  - \* bug 374605 - Unreasonable warning for enum-based switch statements
  - \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
  - \* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 376053 - [compiler][resource] Strange potential resource leak problems
  - \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
  - \* bug 393719 - [compiler] inconsistent warnings on iteration
- variables
- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
  - \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
- abstract
- \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
  - \* bug 376590 - Private fields with @Inject are ignored by unused field validation
  - \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
  - \* bug 402028 - [1.8][compiler] null analysis for reference expressions
  - \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
  - \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
  - \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
  - \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
  - \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- field
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
- Files::walk
- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
  - \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
- Bindings
- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
  - \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
  - \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
  - \* Bug 430150 - [1.8][null] stricter checking against type variables
  - \* Bug 434600 - Incorrect null analysis error reporting on type parameters
  - \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
  - \* Bug 438467 - [compiler][null] Better error position for "The method \_ cannot implement the corresponding method \_ due to incompatible nullness constraints"

- \* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java

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- \* Contributors:
- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - Contribution for
- \* bug 384380 - False positive on a "Potential null pointer access" after a continue
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java  
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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/ModuleScope.java

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* IBM Corporation - initial API and implementation  
* Stephan Herrmann - Contributions for  
* bug 186342 - [compiler][null] Using annotations for null checking  
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
* bug 388281 - [compiler][null] inheritance of null annotations as an option  
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
*/
```

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java

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* Contributors:
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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 407191 - [1.8] Binary access support for type annotations
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   IBM Corporation - added the following constants
*     NonStaticAccessToStaticField
*     NonStaticAccessToStaticMethod
*     Task
*     ExpressionShouldBeAVariable
*     AssignmentHasNoEffect
*   IBM Corporation - added the following constants
*     TooManySyntheticArgumentSlots
*     TooManyArrayDimensions
*     TooManyBytesForStringConstant
*     TooManyMethods
*     TooManyFields
*     NonBlankFinalLocalAssignment
*     ObjectCannotHaveSuperTypes
*     MissingSemiColon
*     InvalidParenthesizedExpression
*     EnclosingInstanceInConstructorCall

```

- \* BytecodeExceeds64KLimitForConstructor
- \* IncompatibleReturnTypeForNonInheritedInterfaceMethod
- \* UnusedPrivateMethod
- \* UnusedPrivateConstructor
- \* UnusedPrivateType
- \* UnusedPrivateField
- \* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- \* InvalidExplicitConstructorCall
- \* IBM Corporation - added the following constants
- \* PossibleAccidentalBooleanAssignment
- \* SuperfluousSemicolon
- \* IndirectAccessToStaticField
- \* IndirectAccessToStaticMethod
- \* IndirectAccessToStaticType
- \* BooleanMethodThrowingException
- \* UnnecessaryCast
- \* UnnecessaryArgumentCast
- \* UnnecessaryInstanceOf
- \*
- FinallyMustCompleteNormally
- \* UnusedMethodDeclaredThrownException
- \* UnusedConstructorDeclaredThrownException
- \* InvalidCatchBlockSequence
- \* UnqualifiedFieldAccess
- \* IBM Corporation - added the following constants
- \* Javadoc
- \* JavadocUnexpectedTag
- \* JavadocMissingParamTag
- \* JavadocMissingParamName
- \* JavadocDuplicateParamName
- \* JavadocInvalidParamName
- \* JavadocMissingReturnTag
- \* JavadocDuplicateReturnTag
- \* JavadocMissingThrowsTag
- \* JavadocMissingThrowsClassName
- \* JavadocInvalidThrowsClass
- \* JavadocDuplicateThrowsClassName
- \* JavadocInvalidThrowsClassName
- \* JavadocMissingSeeReference
- \* JavadocInvalidSeeReference
- \* JavadocInvalidSeeHref
- \* JavadocInvalidSeeArgs
- \* JavadocMissing
- \* JavadocInvalidTag
- \* JavadocMessagePrefix
- \* EmptyControlFlowStatement
- \* IBM Corporation - added the following constants
- \* IllegalUsageOfQualifiedTypeReference

- \* InvalidDigit
- \* IBM Corporation - added the following constants
- \* ParameterAssignment
- \* FallthroughCase
- \* IBM Corporation - added the following constants
- \* UnusedLabel
- \* UnnecessaryNLSTag
- \* LocalVariableMaybeNull
- \* EnumConstantsCannotBeSurroundedByParenthesis
- \* JavadocMissingIdentifier
- \* JavadocNonStaticTypeFromStaticInvocation
- \* RawTypeReference
- \* NoAdditionalBoundAfterTypeVariable
- \* UnsafeGenericArrayForVarargs
- \* IllegalAccessFromTypeVariable
- \*
- AnnotationValueMustBeArrayInitializer
- \* InvalidEncoding
- \* CannotReadSource
- \* EnumStaticFieldInInInitializerContext
- \* ExternalProblemNotFixable
- \* ExternalProblemFixable
- \* IBM Corporation - added the following constants
- \* AnnotationValueMustBeAnEnumConstant
- \* OverridingMethodWithoutSuperInvocation
- \* MethodMustOverrideOrImplement
- \* TypeHidingTypeParameterFromType
- \* TypeHidingTypeParameterFromMethod
- \* TypeHidingType
- \* IBM Corporation - added the following constants
- \* NullLocalVariableReference
- \* PotentialNullLocalVariableReference
- \* RedundantNullCheckOnNullLocalVariable
- \* NullLocalVariableComparisonYieldsFalse
- \* RedundantLocalVariableNullAssignment
- \* NullLocalVariableInstanceofYieldsFalse
- \* RedundantNullCheckOnNonNullLocalVariable
- \* NonNullLocalVariableComparisonYieldsFalse
- \* IBM Corporation - added the following constants
- \* InvalidUsageOfTypeParametersForAnnotationDeclaration
- \* InvalidUsageOfTypeParametersForEnumDeclaration
- \* IBM Corporation - added the following constants
- \* RedundantSuperinterface
- \* Benjamin Muskalla - added the following constants
- \* MissingSynchronizedModifierInInheritedMethod
- \* Stephan Herrmann - added the following constants
- \* UnusedObjectAllocation
- \* PotentiallyUnclosedCloseable

- \* PotentiallyUnclosedCloseableAtExit
- \* UnclosedCloseable
- \* UnclosedCloseableAtExit
- \* ExplicitlyClosedAutoCloseable
- \*     RequiredNonNullButProvidedNull
- \*     RequiredNonNullButProvidedPotentialNull
- \*     RequiredNonNullButProvidedUnknown
- \*     NullAnnotationNameMustBeQualified
- \*     IllegalReturnNullityRedefinition
- \*     IllegalRedefinitionToNonNullParameter
- \*     IllegalDefinitionToNonNullParameter
- \*     ParameterLackingNonNullAnnotation
- \*     ParameterLackingNullableAnnotation
- \*     PotentialNullMessageSendReference
- \*     RedundantNullCheckOnNonNullMessageSend
- \*     CannotImplementIncompatibleNullness
- \*     RedundantNullAnnotation
- \*     RedundantNullDefaultAnnotation
- \*     RedundantNullDefaultAnnotationPackage
- \*     RedundantNullDefaultAnnotationType
- \*     RedundantNullDefaultAnnotationMethod
- \*     ContradictoryNullAnnotations
- \*     IllegalAnnotationForBaseType
- \*     RedundantNullCheckOnSpecdNonNullLocalVariable
- \*     SpecdNonNullLocalVariableComparisonYieldsFalse
- \*     RequiredNonNullButProvidedSpecdNullable
- \*     MissingDefaultCase
- \*     MissingEnumConstantCaseDespiteDefault
- \*     UninitializedLocalVariableHintMissingDefault
- \*     UninitializedBlankFinalFieldHintMissingDefault
- \*     ShouldReturnValueHintMissingDefault
- \*     IllegalModifierForInterfaceDefaultMethod
- \*     InheritedDefaultMethodConflictsWithOtherInherited
- \*     ConflictingNullAnnotations
- \*     ConflictingInheritedNullAnnotations
- \*     UnsafeElementTypeConversion
- \*     ArrayReferencePotentialNullReference
- \*     DereferencingNullableExpression
- \*     NullityMismatchingTypeAnnotation
- \*     NullityMismatchingTypeAnnotationSuperHint
- \*     NullityUncheckedTypeAnnotationDetail
- \*     NullityUncheckedTypeAnnotationDetailSuperHint
- \*     NullableFieldReference
- \*     UninitializedNonNullField
- \*     UninitializedNonNullFieldHintMissingDefault
- \*     NonNullMessageSendComparisonYieldsFalse
- \*     RedundantNullCheckOnNonNullSpecdField
- \*     NonNullSpecdFieldComparisonYieldsFalse



- \* NonNullExpressionComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullExpression
- \* ReferenceExpressionParameterNullityMismatch
- \* ReferenceExpressionParameterNullityUnchecked
- \* ReferenceExpressionReturnNullRedef
- \* ReferenceExpressionReturnNullRedefUnchecked
- \* DuplicateInheritedDefaultMethods
- \* SuperAccessCannotBypassDirectSuper
- \* SuperCallCannotBypassOverride
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* PotentialNullUnboxing
- \* NullUnboxing
- \* NullExpressionReference
- \* PotentialNullExpressionReference
- \* RedundantNullCheckAgainstNonNullType
- \* NullAnnotationUnsupportedLocation
- \* NullAnnotationUnsupportedLocationAtType
- \* NullityMismatchTypeArgument
- \* ContradictoryNullAnnotationsOnBound
- \* UnsafeNullnessCast
- \* ContradictoryNullAnnotationsInferred
- \* NonNullDefaultDetailIsNotEvaluated
- \* NullNotCompatibleToFreeTypeVariable
- \* NullityMismatchAgainstFreeTypeVariable
- \* ImplicitObjectBoundNonNullDefault
- \* IllegalParameterNullityRedefinition
- \* ContradictoryNullAnnotationsInferredFunctionType
- \* IllegalReturnNullityRedefinitionFreeTypeVariable
- \* UnlikelyCollectionMethodArgumentType
- \* UnlikelyEqualsArgumentType
- \* Jesper S Moller - added the following constants
- \* TargetTypeNotAFunctionalInterface
- \* OuterLocalMustBeEffectivelyFinal
- \* IllegalModifiersForPackage
- \* DuplicateAnnotationNotMarkedRepeatable
- \* DisallowedTargetForContainerAnnotation
- \* RepeatedAnnotationWithContainerAnnotation
- \* ContainingAnnotationMustHaveValue
- \* ContainingAnnotationHasNonDefaultMembers
- \* ContainingAnnotationHasWrongValueType
- \* ContainingAnnotationHasShorterRetention
- \* RepeatableAnnotationHasTargets
- \* RepeatableAnnotationTargetMismatch
- \* RepeatableAnnotationIsDocumented
- \* RepeatableAnnotationIsInherited
- \* RepeatableAnnotationWithRepeatingContainerAnnotation

```
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitiazlier
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitalizers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture
* VarIsNotAllowedHere
*****/
```

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contribution for

\* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\*

bug 407191 - [1.8] Binary access support for type annotations

```
*****/
```

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java

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\* Contributors:

\* Stephan Herrmann - initial API and implementation  
\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\* Bug 473178  
\* IBM Corporation - Bug fixes

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java

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\* Contributors:

\* IBM Corporation - initial API and implementation  
\* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation  
processing

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.java

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*   Stephan Herrmann - Contribution for
*     bug 331649 - [compiler][null] consider null annotations for fields
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Jesper S Moller - Contributions for
*     bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java

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*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
*****/

```

Found

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```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug
415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*     Bug 426792 - [1.8][inference][impl] generify new type inference engine
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*     Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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*   Genady Beriozkin - added support for reporting assignment with no effect
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

```

- \* bug 292478 - Report potentially null across variable assignment
  - \* bug 335093 - [compiler][null] minimal hook for future null annotation support
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 358903 - Filter practically unimportant resource leak warnings
  - \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
  - \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
  - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
  - \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
  - \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
  - \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java

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\* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to  
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding  
\* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)  
\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\* Bug 415043 - [1.8][null] Follow-up re null type  
annotations after bug 392099  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Bug 434600 - Incorrect null analysis error reporting on type parameters  
\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
\* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>  
\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
\* Andy Clement - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\* bug 403147 - [compiler][null] FUP of bug 400761:  
consolidate interaction between unboxing, NPE, and deferred checking  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* Bug 428811 - [1.8][compiler] Type witness unnecessarily required  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\*\*\*\*\*/



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\* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

\* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

\* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 405104 -

[1.8][compiler][codegen] Implement support for serializable lambdas

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/

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 *     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 *     bug 383368 - [compiler][null] syntactic null analysis for field references
 */
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java

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\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* bug 413958 - Function override returning inherited Generic Type

\* Bug 400874 - [1.8][compiler] Inference infrastructure

should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported

\* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations

\* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference

\* Bug 446442 - [1.8] merge null annotations from super methods

\* Bug 457079 - Regression: type

inference

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## 1.636 zstd 1.5.2

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```
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/ByteStream.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/tools/Callback.java
*
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtConstructor.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewClass.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/expr/FieldAccess.java
*
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/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Loader.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/IntQueue.java  
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Pair.java  
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 */
```

Found in path(s):

```
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
*
/opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
```

jar/javassist/bytecode/annotation/BooleanMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-  
jar/javassist/bytecode/annotation/AnnotationMemberValue.java

# 1.638 Iz4 1.2.12

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# 1.639 unzip 6.0-25ubuntu1.1

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-----

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete

core code is now covered by the Info-ZIP License. Therefore, support for the reduce method has been removed.

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- \*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the  
Info-ZIP group, with large contributions from (but not limited to):  
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename  
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),  
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine  
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows  
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and  
others. See the file CONTRIBS in the source distribution for a much  
more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

---

# 1.640 otel-exporters-otlp-otlptrace-otlptracegrpc 1.0.1

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```
/*
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
```

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-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//////////////////////////////////////////////////////////////////
```

-----  
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in t\_html\_generator.h

\* Bootstrap v2.0.3

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/\* gun.c -- simple gunzip to give an example of the use of inflateBack()

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Version 1.7 12 August 2012 Mark Adler \*/

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.

Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

Zip File specification

## Notes.

- \* To be able to use BZip compression method in

zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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/\* compress.c -- compress a memory buffer

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/\* zconf.h -- configuration of the zlib compression library

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\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

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/\*

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\* version 2.2, 14 Aug 2012

\*/

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1.2.11.dfsg/examples/gzlog.c

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/\* deflate.c -- compress data using the deflation algorithm

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1.2.11.dfsg/examples/zlib\_how.html

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/\* zutil.h -- internal interface and configuration of the compression library

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/\* uncompr.c -- decompress a memory buffer

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Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

No license file was found, but licenses were detected in source scan.

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

No license file was found, but licenses were detected in source scan.

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G should only read the compressed/uncompressed size from the Zip64 format if the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

No license file was found, but licenses were detected in source scan.

/\* gzwrite.c -- zlib functions for writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

No license file was found, but licenses were detected in source scan.

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of `compress()`, the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`.

Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h`. Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/`.

7. Why don't you use GNU `autoconf` or `libtool` or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at `zlib@gzip.org`. Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to `gzputc`"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or `/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?



No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's `contrib/puff` directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is

32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

### 34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/> .

### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

### 36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was

correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,

use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact

the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.h -- header to use inftrees.c
```

```
* Copyright (C) 1995-2005, 2010 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
```

No license file was found, but licenses were detected in source scan.

```
/* gzappend -- command to append to a gzip file
```

Copyright (C) 2003, 2012 Mark Adler, all rights reserved

version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

/\* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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Mark Adler

jloup@gzip.org

madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations



\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of zip.h

\*/

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.c -- generate Huffman trees for efficient decoding
```

```
* Copyright (C) 1995-2017 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
```

No license file was found, but licenses were detected in source scan.

```
/* inflate.c -- zlib decompression
```

```
* Copyright (C) 1995-2016 Mark Adler
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
```

No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
```

```
Not copyrighted -- provided to the public domain
```

```
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
```

No license file was found, but licenses were detected in source scan.

## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minizip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at

the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work for most flavors of Unix. For Windows, use one of the special makefiles in win32/ or contrib/vstudio/. For VMS, use make\_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/.

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving

lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

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Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

No license file was found, but licenses were detected in source scan.

```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

No license file was found, but licenses were detected in source scan.

```
/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.1 29 Sep 2012 Mark Adler */
```

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

```
/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlog.h
```

```
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012
```

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```
Mark Adler  madler@alumni.caltech.edu
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
```

No license file was found, but licenses were detected in source scan.

```
/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
```

No license file was found, but licenses were detected in source scan.

```
/* zlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.
```

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

# 1.642 zlib 1.2.13

## 1.642.1 Available under license :

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# 1.643 apache-commons-text 1.10.0

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## 1.644 cobra 1.6.0

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```

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```

## 1.645 go-autorest-logging 0.2.1

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# 1.646 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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## 1.648 docker-credential-helpers 0.7.0

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## 1.649 go-errors-errors 1.4.2

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## 1.650 scala 2.13.10.v20221008-124105-VFINAL-4905801

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
    Either create a single parameter accepting the Tuple2,  
    or consider a pattern matching anonymous function: `{ case (a, b) => ... }`  
val x: ((Int, Int) => Int) = (((a, b)) => a)  
    ^
```

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

```
    Either create a single parameter accepting the Tuple2,  
    or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`  
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

`val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)`

^

3 errors

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ASM: a very small and fast Java bytecode manipulation framework

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```
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
*
/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/bind/JsonTreeReader.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
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jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
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jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java  
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jar/com/google/gson/internal/bind/ArrayTypeAdapter.java  
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jar/com/google/gson/internal/bind/JsonTreeWriter.java  
\*  
/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java  
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jar/com/google/gson/internal/GsonBuildConfig.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/PreJava9DateFormatProvider.java

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- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/annotations/Until.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonSerializationContext.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/ExclusionStrategy.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/\$Gson\$Preconditions.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonElement.java
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- /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonPrimitive.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonSerializer.java
- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/InstanceCreator.java
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- \* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonDeserializer.java
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/opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-
jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1455481167_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/Gson.java
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jar/com/google/gson/reflect/TypeToken.java
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jar/com/google/gson/internal/$Gson$Types.java
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonStreamParser.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/LongSerializationPolicy.java

\*

/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonParser.java

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/JsonReader.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/JsonScope.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/JsonToken.java

\*

/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/MalformedJsonException.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/JsonWriter.java

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Found in path(s):

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/annotations/JsonAdapter.java

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/NumberTypeAdapter.java

# 1.652 sqlite 3.31.1-4ubuntu0.5

## 1.652.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: sqlite3

Source: <https://www.sqlite.org/cgi/src/dir?ci=trunk>

Files: \*

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Files: debian/\*

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- Blowfish is now external, in the OpenSSL library

[The licence continues]

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```
* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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zip/VM_logo/Horizontal_orientation/VM_logo2_HRZNTL.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Horizontal_orientation/VM_logo2_HRZNTL_white.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Standard_orientation/VM_logo1.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Standard_orientation/VM_logo1_white.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Symbol/VM_symbol.eps: binary file matches  
/opt/cola/permits/1470661767_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-  
zip/VM_logo/Symbol/VM_symbol_white.eps:  
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```
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NISEI-cobra-6ee412e/app/assets/javascripts/awesomeplete.js
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Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

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```
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

3 errors

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```

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Manifest-Version: 1.0  
Automatic-Module-Name: scala.compat.java8  
Bnd-LastModified: 1635385851336  
Bundle-Description: scala-java8-compat  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>;description=Apache-2.0  
Bundle-ManifestVersion: 2  
Bundle-Name: scala-java8-compat  
Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat  
Bundle-Vendor: org.scala-lang.modules  
Bundle-Version: 1.0.2  
Created-By: 1.8.0\_312 (Temurin)  
Export-Package: scala.compat.java8;version="1.0.2";uses="scala,scala.collection,scala.collection.convert,scala.compat.java8.converterImpl,scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,sc

ala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter  
s;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala  
.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="sc  
ala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterI  
mpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.co  
nvert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.funct  
ionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.ru  
ntime",scala.compat.java8.wrappers;version="1.0.2"

Implementation-Title: scala-java8-compat

Implementation-URL: <http://www.scala-lang.org/>

Implementation-Vendor: org.scala-lang.modules

Implementation-Vendor-Id: org.scala-lang.modules

Implementation-Version: 1.0.2

Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.  
13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.m  
utable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="  
[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.com  
pat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8  
.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala  
.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version  
="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[  
2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.1  
3,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.1  
3,3)"

Private-Package: scala.concurrent.java8

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Specification-Title: scala-java8-compat

Specification-Vendor: org.scala-lang.modules

Specification-Version: 1.0.2

Tool: Bnd-5.1.2.202007211702

Found in path(s):

\* /opt/cola/permits/1501589067\_1670483251.2627988/0/scala-java8-compat-2-13-1-0-2-2-jar/META-  
INF/MANIFEST.MF

# 1.663 utils 0.0.0-20221107191617- 1a15be271d1d

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# 1.664 open-telemetry-opentelemetry-collector-contrib 1.0.1

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lib/erl/src/Makefile.am



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-----  
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components:

```
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-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
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  json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
```

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//
///////////////////////////////////////////////////////////////////
```

-----  
Codegen template

in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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-----

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jar/org/rocksdb/RocksMutableObject.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractNativeReference.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Holder.java  
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jar/org/rocksdb/AbstractTableFilter.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/MutableOptionValue.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/HashLinkedListMemTableConfig.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractMutableOptions.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/TableProperties.java
```

```
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/util/Environment.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableOptionKey.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SizeApproximationFlag.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionStopStyle.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HashSkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableDBOptionsInterface.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFilter.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TransactionLogIterator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/NativeLibraryLoader.java
*
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/BlockBasedTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HistogramType.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/RocksDBException.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/TableFormatConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionOptions.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/ExternalFileIngestionInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionJobInfo.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/OptimisticTransactionOptions.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/RocksObject.java
```

\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/SstFileWriter.java  
 \* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Statistics.java  
 \* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/AbstractCompactionFilterFactory.java  
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 \* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StatisticsCollectorCallback.java  
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 /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/StateType.java  
 \* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TxnDBWritePolicy.java  
 \* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/PersistentCache.java  
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/Cache.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/UInt64AddOperator.java
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```

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```

```
Found in path(s):
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CassandraValueMergeOperator.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CassandraCompactionFilter.java
```

## 1.672 mschoch-smat 0.2.0

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## 1.684 go-openapi-jsonpointer 0.19.6

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# 1.685 go-openapi-jsonreference 0.20.1

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# 1.686 go-restful 3.10.1

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# 1.688 prometheus-client 0.2.0

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## 1.691 x-crypto 0.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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```

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`validate-pyproject`

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# 1.694 pythonurllib 1.25.8-2ubuntu0.2

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

- \* georgemarshall <<https://github.com/georgemarshall>>
  - \* Bugfixes, Improvements and Test coverage
  
- \* Thomas Kluyver <[thomas@kluyver.me.uk](mailto:thomas@kluyver.me.uk)>
  - \* Python 3 support
  
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
  - \* Design review, bugfixes, test coverage.
  
- \* studer <[theo.studer@gmail.com](mailto:theo.studer@gmail.com)>
  - \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <[slingamn@cs.stanford.edu](mailto:slingamn@cs.stanford.edu)>
  - \* Support for explicitly closing pooled connections
  
- \* hartator <[hartator@gmail.com](mailto:hartator@gmail.com)>
  - \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <[thomas@t-8ch.de](mailto:thomas@t-8ch.de)>
  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
- \* Sune Kirkeby <[mig@ibofobi.dk](mailto:mig@ibofobi.dk)>
  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <[marc.schlaich@gmail.com](mailto:marc.schlaich@gmail.com)>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <[bbzbryce@gmail.com](mailto:bbzbryce@gmail.com)>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <[boris.figovsky@ravello systems.com](mailto:boris.figovsky@ravello systems.com)>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <[jaywink@basshero.org](mailto:jaywink@basshero.org)>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL

- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.



- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.

- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.

- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <<https://www.brucemerry.org.za>>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout

- \* Hugo van Kemenade <<https://github.com/hugovk>>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <<https://github.com/timb07>>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <<https://github.com/jbramleycl>>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <<https://permadeath.com/>>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <[chris.jerdonek@gmail.com](mailto:chris.jerdonek@gmail.com)>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

# 1.695 jline 3.22.0

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
\*

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/EOFError.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/SyntaxError.java  
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Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionFactory.java

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java

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#

class = org.jline.terminal.impl.exec.ExecTerminalProvider

Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-  
INF/services/org/jline/terminal/provider/exec

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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jansi
```

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*/
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```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/Utils/AnsiWriter.java
```

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```
*/
```

```
/*
```

```
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```

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/PortListener.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/Connection.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/TelnetIO.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionEvent.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionManager.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionData.java

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Reference.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExecPty.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ShutdownHooks.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/OSUtils.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Expander.java

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ClosedException.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ExecHelper.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/DiffHelper.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/UserInterruptException.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Binding.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/InputStreamReader.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/DefaultExpander.java

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/UndoTree.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Macro.java

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/WCWidth.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Widget.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/package-
info.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Levenshtein.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/AttributedString.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Cursor.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/history/package-info.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/MouseSupport.java
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```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smsso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
```

memory\_above, da, da  
memory\_below, db, db  
move\_insert\_mode, mir, mi  
move\_standout\_mode, msgr, ms  
needs\_xon\_xoff, nxon, nx  
no\_esc\_ctlc, xsb, xb  
no\_pad\_char, npc,  
NP  
non\_dest\_scroll\_region, ndscr, ND  
non\_rev\_rmcup, nrrmc, NR  
over\_strike, os, os  
prtr\_silent, mc5i, 5i  
row\_addr\_glitch, xvpa, YD  
semi\_auto\_right\_margin, sam, YE  
status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
columns, cols, co  
init\_tabs, it, it  
label\_height, lh, lh  
label\_width, lw, lw  
lines, lines, li  
lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
max\_attributes, ma, ma  
max\_colors, colors, Co  
max\_pairs, pairs, pa  
maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
num\_labels, nlab, NI  
padding\_baud\_rate, pb, pb  
virtual\_terminal, vt, vt  
width\_status\_line, wsl, ws  
bit\_image\_entwining, bitwin, Yo  
bit\_image\_type, bitype, Yp  
buffer\_capacity, bufisz, Ya  
buttons, btns, BT  
dot\_horz\_spacing, spinh, Yc  
dot\_vert\_spacing, spinv, Yb  
max\_micro\_address, maddr, Yd  
max\_micro\_jump, mjump, Ye  
micro\_col\_size, mcs, Yf  
micro\_line\_size, mls, Yg  
number\_of\_pins, npins, Yh  
output\_res\_char, orc, Yi  
output\_res\_horz\_inch, orhi, Yk  
output\_res\_line, orl, Yj

output\_res\_vert\_inch,  
orvi, Yl  
print\_rate, cps, Ym  
wide\_char\_size, widcs, Yn  
acs\_chars, acsc, ac  
back\_tab, cbt, bt  
bell, bel, bl  
carriage\_return, cr, cr  
change\_char\_pitch, cpi, ZA  
change\_line\_pitch, lpi, ZB  
change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct  
clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e1l, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,  
SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti

enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is

init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
key\_f15, kf15, F5  
key\_f16, kf16, F6  
key\_f17, kf17, F7  
key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
key\_f20, kf20, FA



key\_f21, kf21, FB  
key\_f22, kf22, FC  
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key\_f25, kf25, FF  
key\_f26, kf26, FG  
key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
key\_f3, kf3, k3  
key\_f30, kf30, FK  
key\_f31, kf31, FL  
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key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR  
key\_f38, kf38, FS  
key\_f39, kf39, FT  
key\_f4, kf4, k4  
key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr

key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill, kA  
key\_left, kcub1, kI  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b

key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_srsume, kRES, %j  
key\_ssave, kSAV, !1  
key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1  
lab\_f10, lf10, la  
lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
lab\_f5, lf5, l5  
lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mypa, Zc  
micro\_up, mcuu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO

parm\_down\_micro,  
  mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mcuu, Zi  
pkey\_key, pkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU  
quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
restore\_cursor, rc, rc  
row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin,  
  smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st

set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5  
user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colorm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispch, S1  
end\_bit\_image\_region, endbi, Yy  
enter\_pc\_charset\_mode,  
smpch, S2  
enter\_scancode\_mode, smsc, S4  
exit\_pc\_charset\_mode, rmpch, S3  
exit\_scancode\_mode, rmsc, S5  
get\_mouse, getm, Gm  
key\_mouse, kmous, Km  
mouse\_info, minfo, Mi

pc\_term\_options, pctrm, S6  
pkey\_plab, pfxl, xl  
req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
set0\_des\_seq, s0ds, s0  
set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF  
set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utis/capabilities.txt

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#

black

maroon

green

olive

navy

purple

teal

silver

grey

red

lime

yellow

blue

fuchsia

aqua

white

grey0

navyblue

darkblue

blue3

blue3a

blue1

darkgreen

deepskyblue4

deepskyblue4a

deepskyblue4b  
dodgerblue3  
dodgerblue2  
green4  
springgreen4  
turquoise4  
deepskyblue3  
deepskyblue3a  
dodgerblue1  
green3  
springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deeppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4  
darkseagreen4  
paleturquoise4  
steelblue  
steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a  
cadetblue



cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumpurple3  
steelblue1a  
chartreuse2  
seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena

palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
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yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a  
deeppink3  
deeppink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianreda  
hotpink3a

hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a  
lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
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darkolivegreen1a  
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honeydew2  
lightcyan1  
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deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
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hotpinka  
mediumorchid1a  
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salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1

lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1  
lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/colors.txt

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Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/terminal/impl/AbstractTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Parser.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/console/impl/ConsoleEngineImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/console/SystemRegistry.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Nano.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/TTop.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/impl/history/DefaultHistory.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/impl/DefaultHighlighter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/terminal/TerminalBuilder.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStyle.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Styles.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/PrintAboveWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/LineReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Completers.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/console/ConsoleEngine.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/widget/TailTipWidgets.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/ConsoleOptionGetter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/impl/CompletionMatcherImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Highlighter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/utils/AttributedCharSequence.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/ArgDesc.java  
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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jna
```

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```
/*
```

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```
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*
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/Utils/NonBlockingPumpReader.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/NopStyleSource.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Buffer.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleColor.java
```

```
*
```

```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/telnet/Telnet.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundle.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/Utils/WriterOutputStream.java
```

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellCommand.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/BufferImpl.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/PumpReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/MemoryStyleSource.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyledWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/InterpolationHelper.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/Ssh.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/Diag.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/TerminalProvider.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/History.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/MaskingCallback.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStringBuilder.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/ParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/keymap/BindingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Terminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleFactory.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/Styler.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/CompletingParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Size.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlocking.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleExpression.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/KillRing.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/NfaMatcher.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java



```
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Curses.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Timeout.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/InputRC.java
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```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/DefaultPrinter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Less.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/builtins/SyntaxHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/Printer.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Source.java
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Options.java

# 1.696 go-openapi-jsonreference 0.20.2

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## 1.698 six 1.14.0-2

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## 1.699 python-certifi 2019.11.28-1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates



file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.700 logr 1.2.3

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Source: <https://github.com/algolia/docsearch/>

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Package: logr

Title: Creates Log Files

Version: 1.2.3

Authors@R:

```
person(given = "David",  
       family = "Bosak",  
       role = c("aut", "cre"),  
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The  
package aims to overcome the difficulty of the base R sink() command. The  
log\_print() function will print to both the console and the file log,  
without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 4.0.0)

Suggests: knitr,  
rmarkdown,  
testthat,  
tidylog,  
dplyr,  
utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/DESCRIPTION

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\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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## 1.702 go-restful 3.9.0

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## 1.703 go-units 0.5.0

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## 1.704 xstrings 1.4.0

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## 1.705 jackson-databind 2.13.5

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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## 1.718 easyjson 0.7.7

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## 1.719 go-test-deep 1.0.6

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@vskip 20pt plus 1fil  
@end macro
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@macro copyrightstart{ }  
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rijndael-alg-fst.c

@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
@author Paulo Barreto <paulo.barreto@terra.com.br>

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```
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## 1.731 tar 1.30+dfsg-7ubuntu0.20.04.3

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java  
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jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

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/**
 * A Base64 encoder/decoder.
 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in RFC 1521.
 *
 * <p>
 * Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
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 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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 */
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java
```

# 1.748 osrg-gobgp 0.0.0-20200806055634-c6f0eba8f4d8

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third\_party/waf/waflib/extras/fc\_bgxlf.py

third\_party/waf/waflib/extras/fc\_cray.py

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third\_party/waf/waflib/extras/fc\_nec.py

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JweCustomizer.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/mac/MacUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/GeneralJwtException.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmFactory.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/NumericDate.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/KeyManagementAlgorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/IssValidator.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/BigEndianBigInteger.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/EcdhKeyAgreementWithAesKeyWrapAlgorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/CipherStrengthSupport.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/SimpleAeadCipher.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/json/JsonHeaderUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/RsaKeyUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/HeaderParameterNames.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/X509Util.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/BouncyCastleProviderHelp.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/JsonWebSignature.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/EllipticCurves.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/EcJwkGenerator.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/HashUtil.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/Algorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodes.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JtiValidator.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/HmacKey.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/CompactSerializer.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/ExceptionHelp.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/KeyPersuasion.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/JsonHelp.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/NumericDateValidator.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/VerificationJwkSelector.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/BaseSignatureAlgorithm.java

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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/RsaJwkGenerator.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/HmacUsingShaAlgorithm.java

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/KdfUtil.java

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jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java  
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jar/org/jose4j/lang/InvalidKeyException.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwk/SelectorSupport.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwk/DecryptionJwkSelector.java  
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/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwk/SimpleJwkFilter.java  
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# 1.755 apache-http-server 2.4.41-4ubuntu3.14

## 1.755.1 Available under license :

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
```



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<div class="up"><a href="."></a></div>  
<div id="path">  
<a href="http://www.apache.org">Apache</a> &gt; <a href="http://httpd.apache.org">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href=".">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>  
<div class="toplang">  
<p><span>Available  
Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>  
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<div class="bottomlang">

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</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

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<script type="text/javascript"><!--><![CDATA[//><!-->

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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[<!--><!--
if (typeof(prettyPrint) !== 'undefined') {
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```

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* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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## 1.765 wheel 0.40.0

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# 1.766 klauspost-compress 1.16.0

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\*  
/opt/cola/permits/1594592384\_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient\_https\_server/pom.xml  
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## 1.768 collector 0.18.0

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## 1.769 jmx\_prometheus\_javaagent\_common 0.18.0

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## 1.770 base-files 11ubuntu5.7

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<signature of Ty Coon>, 1 April 1989  
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Version 3, 29 June 2007

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# 1.771 docker 23.0.1+incompatible

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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procs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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# 1.772 jetty-client 9.4.51.v20230217

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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#### Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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#### Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.774 kerberos 1.17-6ubuntu4.3

## 1.774.1 Available under license :

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
```

lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c



lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
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lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation,  
including  
the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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kprop/kpropd\_rpc.c  
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components:

```
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```

-----  
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```
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*/
```

(By Douglas Crockford <douglas@crockford.com>)

-----  
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```
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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 */
```

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```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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## 1.779 error\_prone\_annotations 2.18.0

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Found in path(s):

\* /opt/cola/permits/1606613656\_1679417956.422988/0/error-prone-annotations-2-18-0-1-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

# 1.780 utils 0.0.0-20230220204549-a5ecb0141aa5

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# 1.781 jackson-dataformat-csv 2.13.5

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# 1.782 spring-framework 5.3.26

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jar/org/jline/builtins/ssh/ShellCommand.java

\* /opt/cola/permits/1617269193\_1679983059.309886/0/jline-remote-ssh-3-22-0-sources-  
jar/org/jline/builtins/ssh/ShellFactoryImpl.java

\* /opt/cola/permits/1617269193\_1679983059.309886/0/jline-remote-ssh-3-22-0-sources-  
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jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
*
/opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-
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class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

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```
* /opt/cola/permits/1617269230_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/META-INF/services/org.jline.terminal.provider/jna
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* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Reference.java
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* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/UndoTree.java
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* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Binding.java
*
/opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
```



jar/org/jline/reader/UserInterruptedException.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/package-info.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/DefaultExpander.java

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\*/

Found in path(s):

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/ReaderUtils.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/DefaultParser.java  
\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java  
\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/EndOfFileException.java  
\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/CompletionMatcher.java  
\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/LineReaderBuilder.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Editor.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Candidate.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Buffer.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/BufferImpl.java

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```

Found in path(s):

```
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/ParsedLine.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/History.java
*
/opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/Completer.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/MaskingCallback.java
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```

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```

Found in path(s):

```
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/Parser.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-
```

jar/org/jline/reader/impl/history/DefaultHistory.java

\*

/opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-

jar/org/jline/reader/impl/DefaultHighlighter.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-

jar/org/jline/reader/impl/LineReaderImpl.java

# 1.787 jline-style 3.22.0

## 1.787.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/MemoryStyleSource.java

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/StyleColor.java

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/StyleBundle.java

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/StyledWriter.java

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/StyleBundleInvocationHandler.java

\* /opt/cola/permits/1617269244\_1681870938.5790405/0/jline-style-3-22-0-sources-

jar/org/jline/style/StyleResolver.java

\*

```
/opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-
jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-
jar/org/jline/style/NopStyleSource.java
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```

Found in path(s):

```
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-
jar/org/jline/style/StyleSource.java
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/Styler.java
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-
jar/org/jline/style/StyleExpression.java
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-
jar/org/jline/style/StyleFactory.java
```

## 1.788 jline-terminal 3.22.0

### 1.788.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/spi/TerminalProvider.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/Diag.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-
jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
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```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/Status.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPty.java
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPty.java
```

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#
```

```
black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
```

blue3a  
blue1  
darkgreen  
deepskyblue4  
deepskyblue4a  
deepskyblue4b  
dodgerblue3  
dodgerblue2  
green4  
springgreen4  
turquoise4  
deepskyblue3  
deepskyblue3a  
dodgerblue1  
green3  
springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deeppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4  
darkseagreen4  
paleturquoise4  
steelblue

steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a  
cadetblue  
cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumturquoise  
steelblue1a  
chartreuse2  
seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3



darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
lightsteelblue3  
lightsteelblue  
yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a  
deeppink3  
deeppink3a  
magenta3a

magenta3b  
magenta2  
darkorange3a  
indianreda  
hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a  
lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange  
salmon1  
lightcoral  
palevioletred1

orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1  
lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/colors.txt

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Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/Utils/PumpReader.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/Utils/NonBlockingPumpReader.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/Utils/NonBlockingPumpInputStream.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/Utils/WriterOutputStream.java
```

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#  
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/META-  
INF/services/org/jline/terminal/provider/exec
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#
```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_sms0, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
```

label\_width, lw, lw  
lines, lines, li  
lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
max\_attributes, ma, ma  
max\_colors, colors, Co  
max\_pairs, pairs, pa  
maximum\_windows, wnum, MW  
no\_color\_video, ncv, NC  
num\_labels, nlab, NI  
padding\_baud\_rate, pb, pb  
virtual\_terminal, vt, vt  
width\_status\_line, wsl, ws  
bit\_image\_entwining, bitwin, Yo  
bit\_image\_type, bitype, Yp  
buffer\_capacity, bufsz, Ya  
buttons, btns, BT  
dot\_horz\_spacing, spinh, Yc  
dot\_vert\_spacing, spinv, Yb  
max\_micro\_address, maddr, Yd  
max\_micro\_jump, mjump, Ye  
micro\_col\_size, mcs, Yf  
micro\_line\_size, mls, Yg  
number\_of\_pins, npins, Yh  
output\_res\_char, orc, Yi  
output\_res\_horz\_inch, orhi, Yk  
output\_res\_line, orl, Yj  
output\_res\_vert\_inch,  
orvi, Yl  
print\_rate, cps, Ym  
wide\_char\_size, widcs, Yn  
acs\_chars, acsc, ac  
back\_tab, cbt, bt  
bell, bel, bl  
carriage\_return, cr, cr  
change\_char\_pitch, cpi, ZA  
change\_line\_pitch, lpi, ZB  
change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct  
clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e1l, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch

command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,  
SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec

exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4



key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
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key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
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key\_f4, kf4, k4

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key\_f41, kf41, FV  
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key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill1, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpvt, %9  
key\_redo, krdo, %0

key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, kRES, %j  
key\_ssave, kSAV, !1  
key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1  
lab\_f10, lf10, la

lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
lab\_f5, lf5, l5  
lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mvpa, Zc  
micro\_up, mciu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro,  
mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mciu, Zi  
pkey\_key, pfkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU

quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
restore\_cursor, rc, rc  
row\_address, vpa, cv  
save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
set\_attributes, sgr, sa  
set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin,  
smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
set\_window, wind, wi  
start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5

user6, u6, u6  
user7, u7, u7  
user8, u8, u8  
user9, u9, u9  
wait\_tone, wait, WA  
xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
code\_set\_init, csin, ci  
color\_names, colorm, Yw  
define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispc, S1  
end\_bit\_image\_region, endbi, Yy  
enter\_pc\_charset\_mode,  
smpch, S2  
enter\_scancode\_mode, smsc, S4  
exit\_pc\_charset\_mode, rmpch, S3  
exit\_scancode\_mode, rmsc, S5  
get\_mouse, getm, Gm  
key\_mouse, kmous, Km  
mouse\_info, minfo, Mi  
pc\_term\_options, pctrm, S6  
pkey\_plab, pfxl, xl  
req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
set0\_des\_seq, s0ds, s0  
set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF  
set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA

set\_pglen\_inch, slength, sL

Found in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/Capabilities.txt

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/NonBlocking.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/NonBlockingInputStreamImpl.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/StyleResolver.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java

\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Terminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Cursor.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/ExecPty.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ClosedException.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/package-info.java  
\*  
/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ShutdownHooks.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/AttributedString.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/OSUtils.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ExecHelper.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/MouseSupport.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Attributes.java  
\*  
/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/InputStreamReader.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/WCWidth.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-

jar/org/jline/terminal/impl/NativeSignalHandler.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/DiffHelper.java  
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jar/org/jline/terminal/impl/AbstractTerminal.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/TerminalBuilder.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/AttributedCharSequence.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/AttributedStyle.java
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- jar/org/jline/builtins/telnet/ConnectionFilter.java
- \*
- /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-
- jar/org/jline/builtins/telnet/ConnectionListener.java

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jar/org/jline/builtins/telnet/PortListener.java  
\*  
/opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionData.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/TelnetIO.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/Connection.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionEvent.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionManager.java

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\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/SyntaxHighlighter.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-jar/org/jline/builtins/Source.java

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* /opt/cola/permits/1617269052_1681870941.6195126/0/jline-builtins-3-22-0-sources-
jar/org/jline/builtins/Completers.java
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* /opt/cola/permits/1617269052_1681870941.6195126/0/jline-builtins-3-22-0-sources-
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jar/org/jline/builtins/TTop.java
* /opt/cola/permits/1617269052_1681870941.6195126/0/jline-builtins-3-22-0-sources-
jar/org/jline/builtins/Styles.java
* /opt/cola/permits/1617269052_1681870941.6195126/0/jline-builtins-3-22-0-sources-
jar/org/jline/builtins/ConsoleOptionGetter.java
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jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
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jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-
jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-
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jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java  
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#  
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jansi  
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* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
```

# 1.792 kustomize-kyaml 0.14.1

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>



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org.apache.taglibs:taglibs-standard-spec

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# 1.795 jetty-continuation 9.4.51.v20230217

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\* org.eclipse.jetty.orbit;javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

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org.ow2.asm:asm-commons

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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Eclipse

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api



org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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END OF  
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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.
```

```
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
```

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## 1.805 logback-core 1.2.12

### 1.805.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/**
 * Logback: the reliable, generic, fast and flexible logging framework.
 * Copyright (C) 1999-2015, QOS.ch. All rights reserved.
 *
 * This program and the accompanying materials are dual-licensed under
 * either the terms of the Eclipse Public License v1.0 as published by
 * the Eclipse Foundation
 *
 * or (per the licensee's choosing)
 *
 * under the terms of the GNU Lesser General Public License version 2.1
 * as published by the Free Software Foundation.
 */
```

Found in path(s):

```
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/html/HTMLLayoutBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/spi/XMLUtil.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/sift/DefaultDiscriminator.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/spi/PreSerializationTransformer.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
```

```

jar/ch/qos/logback/core/util/SystemInfo.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/ContextBase.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/LifeCycleManager.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/spi/FilterReply.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/hook/DelayingShutdownHook.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/ImplicitAction.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java

```

\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/sift/AbstractAppenderFactoryUsingJoran.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/sift/Discriminator.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/ThenOrElseActionBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/FormattingConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/IADDataForComplexProperty.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/FixedDelay.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/SyslogConstants.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/DefaultSocketConnector.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/LayoutBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/OutputStreamAppender.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/LogbackException.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/stax/StaxEvent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-



jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/status/HttpStatus.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/parser/Node.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/filter/EvaluatorFilter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/spi/CyclicBufferTracker.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/ConsoleAppender.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/util/LocationUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/spi/ElementPath.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/action/ActionConst.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/rolling/helper/CompressionMode.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/conditional/ElseAction.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/net/server/ClientVisitor.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/helpers/Transform.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/pattern/parser/TokenStream.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/layout/EchoLayout.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-  
jar/ch/qos/logback/core/spi/FilterAttachable.java

\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/spi/PropertyDefiner.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/CoreConstants.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/ActionUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/StatusListener.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/WarnStatus.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/FileUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/PropertyDefinerBase.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BoldRedCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/sift/SiftingJoranConfiguratorBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/InfoStatus.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/InterpretationContext.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/AsyncAppenderBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/read/CyclicBufferAppender.java  
\*

/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/boolex/Matcher.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/ContentTypeUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/server/ServerListener.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/Duration.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/SpacePadder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/PropertySetterException.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/EchoEncoder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/util/PropertySetter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableServerSocket.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/AppenderBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/FileSize.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/OptionHelper.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java

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jar/ch/qos/logback/core/pattern/PostCompileProcessor.java
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jar/ch/qos/logback/core/pattern/FormatInfo.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/ContextUtil.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/filter/Filter.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/server/Client.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java
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/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/util/IncompatibleClassException.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/UnsynchronizedAppenderBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
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/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/spi/PropertyContainer.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/spi/ContextAwareBase.java
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jar/ch/qos/logback/core/joran/spi/RuleStore.java
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jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java
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jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java
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jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/SMTPAppenderBase.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/helpers/NOPAppender.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/IncludeAction.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/GenericConfigurator.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/TimeUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/LayoutWrappingEncoder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/StatusUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/SyslogOutputStream.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/sift/AppenderFactory.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/stax/StartEvent.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/Status.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/StringCollectionUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/SocketConnector.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/stax/EndEvent.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/StatusListenerAction.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java

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/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/NewRuleAction.java
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jar/ch/qos/logback/core/pattern/util/RegularEscapeUtil.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/action/PropertyAction.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/joran/spi/JoranException.java
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jar/ch/qos/logback/core/Context.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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jar/ch/qos/logback/core/sift/AbstractDiscriminator.java
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jar/ch/qos/logback/core/joran/event/SaxEvent.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
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* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/FileAppender.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/PatternLayoutBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/parser/Compiler.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
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jar/ch/qos/logback/core/status/StatusBase.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/boolex/EventEvaluator.java
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java  
\*  
/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/stax/StaxEventRecorder.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/ParamAction.java  
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\*  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/EnvUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/DelayStrategy.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/BasicStatusManager.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/IADDataForBasicProperty.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/DynamicConverter.java  
\*

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jar/org/apache/zookeeper/txn/CreateSessionTxn.java
*
  /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/MultiHeader.java
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jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/TxnHeader.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetDataResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/WatcherEvent.java
*
  /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/Txn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/CreateTxnV0.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ConnectRequest.java
```

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/data/StatPersisted.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/Create2Response.java  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/DeleteRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetACLRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/data/Id.java  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CreateTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-

```

jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/CreateContainerTxn.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetACLResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/data/ACL.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/SetDataTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/CheckVersionTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/SetACLTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CreateResponse.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetWatches.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetACLRequest.java

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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CreateRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ConnectResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ReplyHeader.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
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Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml

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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/package.html

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/package.html

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/package.html

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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JBuffer.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JMap.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/OutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JByte.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JCompType.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JInt.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JLong.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JString.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Record.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/ToStringOutputArchive.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JRecord.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordWriter.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JDouble.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JVector.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordReader.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryOutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryInputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/CSharpGenerator.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JType.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Utils.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-

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jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JBoolean.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFloat.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Index.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFile.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/InputArchive.java
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```
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/rcc.jj
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
```



```
jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/Rcc.java
```

## 1.813 kubernetes-model-node 6.5.1

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```
* /opt/cola/permits/1634239322_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/manifest.vm
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\* /opt/cola/permits/1634239322\_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml

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Found in path(s):

\* /opt/cola/permits/1634239308\_1681828835.6492832/0/kubernetes-model-resource-6-5-1-sources-jar/manifest.vm

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Found in path(s):

\* /opt/cola/permits/1634239308\_1681828835.6492832/0/kubernetes-model-resource-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-resource/pom.xml

# 1.815 kubernetes-httpclient-okhttp 6.5.1

## 1.815.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientFactory.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientBuilderImpl.java

\*

/opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpWebsocketImpl.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientImpl.java

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Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-httpclient-okhttp/pom.xml

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#
```

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory

Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/services/io.fabric8.kubernetes.client.http.HttpClient\$Factory

# 1.816 kubernetes-model-flowcontrol 6.5.1

## 1.816.1 Available under license :

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: Java client for Kubernetes and OpenShift

Bundle-DocURL: <http://redhat.com>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Fabric8 :: Kubernetes Model :: FlowControl  
Bundle-SymbolicName: io.fabric8.kubernetes-model-flowcontrol  
Bundle-Vendor: Red Hat  
Bundle-Version: 6.5.1  
Created-By: Apache Maven Bundle Plugin 5.1.8  
Export-Package: io.fabric8.kubernetes.api.model.flowcontrol.v1alpha1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="6.5.1",io.fabric8.kubernetes.api.model.flowcontrol.v1beta1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="6.5.1",io.fabric8.kubernetes.api.model.flowcontrol.v1beta2;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="6.5.1",io.fabric8.kubernetes.api.model.flowcontrol.v1beta3;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";version="6.5.1"  
Implementation-URL: <http://fabric8.io/kubernetes-model-generator/kubernetes-model-flowcontrol/>  
Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",com.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.builder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation;version="[6.5,7)"  
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.KubernetesResource=target/classes/META-INF/services/io.fabric8.kubernetes.api.model.KubernetesResource,schema/kube-schema.json=src/main/resources/schema/kube-schema.json,schema/validation-schema.json=src/main/resources/schema/validation-schema.json,manifest.vm=src/main/resources/manifest.vm,META-INF/jandex.idx=target/classes/META-INF/jandex.idx  
Private-Package: schema  
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.kubernetes.api.model.KubernetesResource"  
Require-Capability: osgi.extender;filter:="(osgi.extender=org.osgi.service.loader.registrar)",osgi.ee;filter:="(osgi.ee=JavaSE)(version=1.8)"  
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git/kubernetes-model-generator/kubernetes-model-flowcontrol  
Scm-Revision: \${buildNumber}  
Scm-Url: <http://github.com/fabric8io/kubernetes-client/kubernetes-mode>

l-generator/kubernetes-model-flowcontrol/  
Specification-Title: Fabric8 :: Kubernetes Model :: FlowControl  
Specification-Vendor: Red Hat  
Specification-Version: 6.5  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/META-INF/maven/io.fabric8/kubernetes-model-flowcontrol/pom.xml

# 1.817 zookeeper 3.6.4

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Found in path(s):

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/Request.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java

\*

/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/SyncCommand.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/LsCommand.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/VersionCommand.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java

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Found in path(s):

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/KeeperException.java

\*

/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/WrappedAuthenticationProvider.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/UnimplementedRequestProcessor.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ReferenceCountedACLCache.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-



```

jar/org/apache/zookeeper/server/quorum/LeaderElectionMXBean.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/metrics/Counter.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/Observer.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/auth/ServerAuthenticationProvider.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/ClientCnxn.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/command/WatchCommand.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ServerCnxnFactory.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ServerMetrics.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/common/IOUtils.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/cli/RemoveWatchesCommand.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/common/AtomicFileWritingIdiom.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/SaslServerPrincipal.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/SessionTracker.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/common/ZKHostnameVerifier.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/auth/DigestLoginModule.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/util/ConfigUtils.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ConnectionMXBean.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/command/DigestCommand.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/SyncRequestProcessor.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/DataTreeBean.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumServerCallbackHandler.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/auth/EnsembleAuthenticationProvider.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ServerCnxn.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/ZooKeeperServerMXBean.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/Quotas.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/quorum/Leader.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/common/NettyUtils.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/ClientWatchManager.java  
 \*  
 /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/client/ConnectionStringParser.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/persistence/FileTxnSnapLog.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/util/KerberosUtil.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/BlueThrottle.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/util/AuthUtil.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/persistence/SnapshotInfo.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/ZooKeeperServerShutdownHandler.java  
 \*  
 /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/command/SetTraceMaskCommand.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/metrics/MetricsProviderLifecycleException.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/cli/CliCommand.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/cli/CliParseException.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/common/FileKeyStoreLoader.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/quorum/LearnerMaster.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/ZKDatabase.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/ZooKeeperServerMain.java  
 \*  
 /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/AsyncCallback.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
 jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java  
 \* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-

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jar/org/apache/zookeeper/server/metric/SimpleCounter.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/cli/AddWatchCommand.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/QuorumCnxManager.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/admin/AdminServerFactory.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/NettyServerCnxn.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ZooTrace.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/CreateMode.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/LocalPeerBean.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/SendAckRequestProcessor.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/cli/StatPrinter.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/QuorumPeer.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/SyncedLearnerTracker.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/watch/WatcherOrBitSet.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ZooKeeperServerListenerImpl.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/DataTree.java
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jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeerConfig.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/MultiResponse.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/CommandResponse.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Op.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesReport.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/MultiOperationRecord.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesSummary.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesPathReport.java

\*  
/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerConf.java

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jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

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jar/org/apache/zookeeper/server/ContainerManager.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/EphemeralType.java

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\*/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/version/VersionInfoMain.java

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jar/org/apache/zookeeper/server/util/CircularBuffer.java  
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jar/org/apache/zookeeper/server/util/MessageTracker.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/util/CircularBlockingQueue.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/watch/WatcherMode.java  
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jar/org/apache/zookeeper/server/TxnLogEntry.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/PathParentIterator.java

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* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ReplaceDeletable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ServerSideApplicable.java
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* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorChannelable.java
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* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/DefaultKubernetesClient.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerWritable.java
*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupDSL.java
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/run/RunOperations.java  
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jar/io/fabric8/kubernetes/client/dsl/BytesLimitTerminateTimeTailPrettyLoggable.java  
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jar/io/fabric8/kubernetes/client/internal/KubeConfigUtils.java  
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jar/io/fabric8/kubernetes/client/dsl/V1BatchAPIGroupDSL.java  
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jar/io/fabric8/kubernetes/client/dsl/StorageAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/NamespacableResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/http/BasicBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/informers/cache/ItemStore.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/V1beta3FlowControlAPIGroupDSL.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaseLock.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/PrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/extension/ExtensibleResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/TimestampBytesLimitTerminateTimeTailPrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ImageEditReplacePatchable.java



\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/PortForward.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/Utils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/NamespacedKubernetesClientAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ParameterMixedOperation.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1DiscoveryAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Timeoutable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/KubernetesClient.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/CertificatesAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1NetworkAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ExecWatch.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchable.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/OperationInfo.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1SchedulingAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/AbstractBasicBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Triggerable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Parameterizable.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ContainerResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/PKCS1Util.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ImageUpdateable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/SSLUtils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/FilterWatchListDeletable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-

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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/Watch.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/dsl/ParameterNamespaceListVisitFromServerGetDeleteRecreateWaitApplicable.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/informers/SharedIndexInformer.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/http/HttpResponseAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/KubernetesClientBuilder.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/OAuthTokenProvider.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/Interceptor.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/TtyExecOutputErrorable.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/ApiVersionUtil.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/PropagationPolicyConfigurable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extension/ExtensibleResourceAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/TailPrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/ResourceLock.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/MetricAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extension/SupportTestingClient.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Typeable.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/ExceptionHandler.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Gettable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ItemWritableOperation.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/OpenIDConnectionUtils.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/DryRunnable.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-

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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1Alpha1AuthenticationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1FlowControlAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NetworkAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NonNamespaceOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/base/PatchType.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NodeMetricOperation.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Utils/ReflectUtils.java

\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/LogWatch.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1AuthorizationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Secretable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1Alpha1DynamicResourceAllocationAPIGroupDSL.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1Alpha1AdmissionRegistrationAPIGroupDSL.java  
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/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/HttpRequest.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/internal/CertUtils.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/KubernetesVersionFactory.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/StandardHttpHeaders.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/DeletableWithOptions.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Waitable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/KubernetesResourceUtil.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/TimeTailPrettyLoggable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/FilterNested.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/extension/ResourceAdapter.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/MixedOperation.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/IpAddressMatcher.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/WebSocket.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/BufferUtil.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ExecListenable.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/WatcherException.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/CustomResource.java  
\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-

jar/io/fabric8/kubernetes/client/dsl/Listable.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/dsl/NamespaceListVisitFromServerGetDeleteRecreateWaitApplicable.java  
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 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
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 jar/io/fabric8/kubernetes/client/V1beta1ApiextensionAPIGroupDSL.java  
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 jar/io/fabric8/kubernetes/client/informers/SharedInformerEventListener.java  
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 \*  
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 jar/io/fabric8/kubernetes/client/informers/cache/Store.java  
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 jar/io/fabric8/kubernetes/client/dsl/CreateOrReplaceable.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/KubernetesClientTimeoutException.java  
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 jar/io/fabric8/kubernetes/client/dsl/PodMetricOperation.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/utils/URLUtils.java  
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 jar/io/fabric8/kubernetes/client/informers/cache/BasicItemStore.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/dsl/NonDeletingOperation.java  
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 jar/io/fabric8/kubernetes/client/dsl/NamespacedInOutCreateable.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/http/HttpHeaders.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/V1AutoscalingAPIGroupDSL.java  
 \* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
 jar/io/fabric8/kubernetes/client/informers/SharedInformerFactory.java

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*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Deletable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/AuthorizationAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ExecListener.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Nameable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/WritableOperation.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/ConfigMapLock.java
*
/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/http/AsyncBody.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1CertificatesAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Loggable.java
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Found in path(s):

```
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/META-
INF/maven/io.fabric8/kubernetes-client-api/pom.xml
```

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```
/*
```



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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/lib/FilenameUtils.java  
\*  
/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-  
jar/io/fabric8/kubernetes/client/lib/FileSystem.java

# 1.819 kubernetes-model-common 6.5.1

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\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml

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\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Version.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Plural.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Kind.java

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/opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/UnmatchedFieldTypeModule.java

\*

/opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Singular.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-

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jar/io/fabric8/kubernetes/model/annotation/Group.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/Scope.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
*
/opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Generated.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/jackson/UnwrappedTypeResolverBuilder.java
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel



Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura

Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby

Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten

Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav

Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

# 1.821 packaging 23.1

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# 1.822 unsafe-assume-no-moving-gc 0.0.0-20230221090011-e4bae7ad2296

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procfs provides functions to retrieve system, kernel and process  
metrics from the pseudo-filesystem proc.

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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Go support for Protocol Buffers - Google's data interchange format

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# 1.824 jetty-security 9.4.51.v20230217

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The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish



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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.826 zstd 1.4.9

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## 1.827 jackson-module-blackbird 2.13.5

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# 1.828 docker 23.0.3+incompatible

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/ThreadSafe.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javax/annotation/concurrent/NotThreadSafe.java  
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## 1.833 logr 1.2.4

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

```
person(given = "David",  
       family = "Bosak",  
       role = c("aut", "cre"),  
       email = "dbosak01@gmail.com")
```

Description: Contains functions to help create log files. The package aims to overcome the difficulty of the base R sink() command. The log\_print() function will print to both the console and the file log, without interfering in other write operations.

License: CC0

Encoding: UTF-8

URL: <https://logr.r-sassy.org>

BugReports: <https://github.com/dbosak01/logr/issues>

Depends: R (>= 3.4.0)

Suggests: knitr,  
 rmarkdown,  
 testthat,  
 tidylog,  
 dplyr,  
 utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION
```

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```
/*!
```

```
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
```

```
* Copyright 2015 Aidan Feldman
```

```
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css
```

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js
```

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```
/*
```

```
Source: https://github.com/algolia/docsearch/
```

```
License: MIT
```

```
*/
```

Found in path(s):

\* /opt/cola/permits/1659984856\_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css

# 1.834 git 2.25.1-1ubuntu3.11

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## 1.836 lib-pq 1.10.9

### 1.836.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
```

```

// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {

```

```
if c, ok := c.(*NoticeHandlerConnector); ok {
    c.noticeHandler = handler
    return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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# 1.837 utils 0.0.0-20230406110748-d93618cff8a2

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# 1.838 joda-time 2.12.5

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# 1.839 Iz4-java 1.8.0

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jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
*  
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java  
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
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jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
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jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/Headers.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DefaultHeaders.java

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- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
- \*
- /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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- \*
- /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
- \*
- /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
- \* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/LzfDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/json/package-info.java  
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*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
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* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
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/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
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\*/

/\*\*

\* A decoder that splits the received {@link ByteBuffer}s dynamically by the  
\* value of the length field in the message. It is particularly useful when you  
\* decode a binary message which has an integer header field that represents the

\* length of the message body or the whole message.  
 \*  
 <p>  
 \* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\*  
 \* <h3>2 bytes length field at offset 0, do not strip header</h3>  
 \*  
 \* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

\* <pre>  
 \* <b>lengthFieldOffset</b> = <b>0</b>  
 \* <b>lengthFieldLength</b> = <b>2</b>  
 \* lengthAdjustment = 0  
 \* initialBytesToStrip = 0 (= do not strip header)  
 \*  
 \* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)  
 \* +-----+-----+      +-----+-----+  
 \* | Length | Actual Content  
 \* |---->| Length | Actual Content |  
 \* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |  
 \* +-----+-----+      +-----+-----+  
 \* </pre>

\*  
 \* <h3>2 bytes length field at offset 0, strip header</h3>  
 \*  
 \* Because we can get the length of the content by calling  
 \* { @link ByteBuf#readableBytes() }, you might want to strip the length  
 \* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
 \* specified <tt>2</tt>, that is same with the length of the length field, to  
 \* strip the first two bytes.

\* <pre>  
 \* lengthFieldOffset = 0  
 \* lengthFieldLength = 2  
 \* lengthAdjustment = 0  
 \* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)  
 \*  
 \* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)  
 \* +-----+-----+      +-----+  
 \* | Length | Actual Content |---->| Actual Content |  
 \* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |  
 \* +-----+-----+      +-----+  
 \* </pre>

```

* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*   represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*

```

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
```

\* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field`</h3>`

\* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
```

\* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field, the length field  
 \* represents the length of the whole message`</h3>`

\* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the

```

* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>

```

\* The encoding and decoding algorithm in this class has been derived from  
\* <http://iharder.sourceforge.net/current/java/base64/>>Robert Harder's Public Domain  
\* Base64 Encoder/Decoder</a>.  
\*/

Found in path(s):

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DecoderResult.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java



\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
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jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DecoderException.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DateFormatter.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/CleanerJava6.java

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 jar/io/netty/util/internal/logging/MessageFormatter.java

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/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
 jar/io/netty/util/internal/logging/FormattingTuple.java

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jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/NetUtilSubstitutions.java
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jar/io/netty/util/ConstantPool.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultThreadFactory.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/Future.java
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jar/io/netty/util/concurrent/Promise.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ProgressiveFuture.java
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/PromiseTask.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakException.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakDetector.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/EmptyArrays.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/package-info.java  
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/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/FutureListener.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/AbstractReferenceCounted.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ReferenceCountUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/package-info.java  
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jar/io/netty/util/Recycler.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ReferenceCounted.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Version.java
*
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jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PlatformDependent0.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ResourceLeak.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PendingWrite.java
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jar/io/netty/util/internal/AppendableCharSequence.java
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jar/io/netty/util/internal/ConcurrentSet.java
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jar/io/netty/util/concurrent/AbstractFuture.java
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/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/Timeout.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/AbstractConstant.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/Attribute.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/StringUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/HashedWheelTimer.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PlatformDependent.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-

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jar/io/netty/util/Signal.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/NetUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/FailedFuture.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/CharsetUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/AttributeMap.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/AttributeKey.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/Constant.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/TimerTask.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java  
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/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/CharCollections.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/CharObjectMap.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/IntCollections.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/ByteCollections.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakHint.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java  
\*  
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*
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jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-

```
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpSCAtomicArrayQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpSCCompoundQueue.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ByteProcessorUtils.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ResourcesUtil.java

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
      <version>${guava-testlib.version}</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

```
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>3.0.0-M3</version>
        <configuration>
```

```

<includes>
  <include>*/</include>
</includes>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>4.2.1</version>
  <extensions>>true</extensions>
  <configuration>
    <instructions>
      <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>

```

```
</plugin>
</plugins>
</build>
```

```
<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
  </repository>
</distributionManagement>
```

```
<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
```

```
<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>
```

```
<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>
```

```
<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>
```

```
<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

#### Found

in path(s):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakTracker.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-

jar/io/netty/util/internal/MacAddressUtil.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/UnaryPromiseNotifier.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/ResourceLeakDetectorFactory.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/OutOfDirectMemoryError.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/RejectedExecutionHandler.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/OrderedEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ConstantTimeUtils.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/DomainNameMappingBuilder.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/logging/Log4J2Logger.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ThrowableUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/UnstableApi.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/PromiseNotificationUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/IntSupplier.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/SocketUtils.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/BooleanSupplier.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/concurrent/PromiseCombiner.java

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```

Found in path(s):

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml
```

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
```

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ObjectPool.java
```

```
*
```

```
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/package-info.java
```

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java
```

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
```

jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/Hidden.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/ClassInitializerUtil.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/MathUtil.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ByteProcessor.java

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ObjectCleaner.java
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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PriorityQueueNode.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
```

```
jar/io/netty/util/internal/LongCounter.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/AsyncMapping.java
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```
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* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/SuppressJava6Requirement.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

```
Found in path(s):
```

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration

# 1.842 netty-transport-native-unix-common

## 4.1.92.Final

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* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java
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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix.h

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_jni.h

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java

\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/IovArray.java

\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/package-info.java

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\*  
/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.h  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/Limits.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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- /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_socket.c
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/UnixChannel.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_errors.c
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
- \*
- /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_socket.h
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
- \* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_filedescriptor.h
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- \*
- /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/Errors.java

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\*  
/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java  
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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/DefaultNameResolver.java  
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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/SimpleNameResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/package-info.java  
\*

/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/AddressResolverGroup.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java  
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```

Found in path(s):

```
* /opt/cola/permits/1670233273_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/1670233273_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
```

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```

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```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
*
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
```

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelPool.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroup.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelId.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelId.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-



jar/io/netty/channel/AbstractEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelProgressiveFutureListener.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelGroupException.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelHandlerAdapter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/ChannelFactory.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelOutboundBuffer.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/ChannelMatchers.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelProgressiveFuture.java

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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
```

```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
```

```
*
```

```
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
```

```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/AbstractEventLoop.java
```

```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
```

jar/io/netty/channel/ChannelFactory.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline}.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its  
 subtypes:

\* <ul>

\* <li>{ @link  
 ChannelInboundHandler} to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler} to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>

\* <li>{ @link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>

\* <li>{ @link ChannelDuplexHandler} to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}  
 \* object. A { @link ChannelHandler} is supposed to interact with the  
 \* { @link ChannelPipeline} it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler} can pass events upstream or  
 \* downstream, modify the pipeline dynamically,

or store the information

\* (using {[@link AttributeKey](#)s) which is specific to the handler.

\*

\* 

### State management

\*

\* A [ChannelHandler](#) often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\*

\* public interface Message {

\* // your methods here

\* }

\*

\* public class DataServerHandler extends {[SimpleChannelInboundHandler](#)} & [Message](#); {

\*

\* **private boolean loggedIn;**

\*

\* {`@Override`}

\* public void channelRead0({[ChannelHandlerContext](#)} ctx, [Message](#) message) {

\* if (message instanceof [LoginMessage](#)) {

\* authenticate(([LoginMessage](#)) message);

\* **loggedIn = true;**

\* } else (message instanceof [GetDataMessage](#)) {

\* if (**loggedIn**) {

\* ctx.writeAndFlush(fetchSecret(([GetDataMessage](#)) message));

\* } else {

\* fail();

\* }

\*

}

\* }

\* ...

\* }

\*

\* Because the handler instance has a state variable which is dedicated to

\* one connection, you have to create a new handler instance for each new

\* channel to avoid a race condition where an unauthenticated client can get

\* the confidential information:

\*

\* // Create a new handler instance per channel.

\* // See {[ChannelInitializer#initChannel\(Channel\)](#)}.

\* public class DataServerInitializer extends {[ChannelInitializer](#)} & {[Channel](#)} & {

\* {`@Override`}

\* public void initChannel({[Channel](#)} channel) {

\* channel.pipeline().addLast("handler", **new DataServerHandler()**);

\* }

\* }

\*

\*

```

*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* </pre>
* Now that the
state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

\*  
 \*  
 \* <h4>The { @code @Sharable } annotation</h4>  
 \* <p>  
 \* In the example above which used an { @link AttributeKey },  
 \* you might have noticed the { @code @Sharable } annotation.  
 \* <p>  
 \* If a { @link ChannelHandler } is annotated with the { @code @Sharable }  
 \* annotation, it means you can create an instance of the handler just once and  
 \* add it to one or more { @link ChannelPipeline }s multiple times without  
 \* a race condition.  
 \* <p>  
 \* If this annotation is not specified, you have to create  
 a new handler  
 \* instance every time you add it to a pipeline because it has unshared state  
 \* such as member variables.  
 \* <p>  
 \* This annotation is provided for documentation purpose, just like  
 \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.  
 \*  
 \* <h3>Additional resources worth reading</h3>  
 \* <p>  
 \* Please refer to the { @link ChannelHandler }, and  
 \* { @link ChannelPipeline } to find out more about inbound and outbound operations,  
 \* what fundamental differences they have, how they flow in a pipeline, and how to handle  
 \* the operation in your application.  
 \*/

Found in path(s):

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/internal/ChannelUtils.java
```

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jar/io/netty/channel/CoalescingBufferQueue.java

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Found in path(s):

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/NioTask.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/local/LocalChannelRegistry.java  
\*  
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jar/io/netty/channel/RecvByteBufAllocator.java  
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jar/io/netty/channel/ChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/ServerBootstrap.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AbstractServerChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelMetadata.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelInitializer.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/package-info.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
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jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultFileRegion.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalChannel.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelConfig.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/CombinedIterator.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoopException.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/package-info.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultEventLoop.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FileRegion.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

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jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/oio/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/Channel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/oio/AbstractOioByteChannel.java
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```

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Found in path(s):
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
*
```



```
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
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jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultChannelHandlerContext.java
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* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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jar/io/netty/handler/pcap/TCPpacket.java
```

```
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
```

```
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/IPPacket.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/UDPPacket.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

\*

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jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
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jar/io/netty/handler/ssl/SniHandler.java  
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jar/io/netty/handler/ssl/CipherSuiteFilter.java  
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jar/io/netty/handler/ipfilter/IpFilterRule.java  
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jar/io/netty/handler/ssl/SslContext.java  
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jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
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jar/io/netty/handler/ssl/JdkSslClientContext.java  
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jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
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jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
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jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/SslUtils.java  
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jar/io/netty/handler/ipfilter/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
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jar/io/netty/handler/ssl/JdkSslEngine.java  
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jar/io/netty/handler/ssl/JdkSslServerContext.java  
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jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
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/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-

jar/io/netty/handler/ssl/PseudoRandomFunction.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-

jar/io/netty/handler/address/package-info.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-

jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-

jar/io/netty/handler/ssl/SslMasterKeyHandler.java

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jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

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jar/io/netty/handler/address/DynamicAddressConnectHandler.java

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jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

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jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java  
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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jar/io/netty/handler/ssl/Ciphers.java
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jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
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jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
*
/opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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jar/io/netty/channel/epoll/SegmentedDatagramPacket.java  
\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java  
\*

/opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

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*/  
/**  
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.  
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.  
 * Allowing them being read would mean anyone with access to the channel could get them.  
  
 */  
/**  
 * Set the {@code TCP_QUICKACK} option on the socket.  
 * See TCP\_QUICKACK  
 * for more details.  
 */
```

Found in path(s):

```
*/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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*/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
jar/io/netty/channel/epoll/LinuxSocket.java
```

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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\* Set the {@code TCP\_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.

\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.

\* Allowing them being read would mean anyone with access to the channel could get them.

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\*

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jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/Epoll.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
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jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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jar/io/netty/channel/epoll/EpollChannelOption.java
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*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
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src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
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#
src/pcf/module.mk
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#
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src/gzip/infblock.h
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src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
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src/tools/ftrandom/ftrandom.c
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#
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# 1.848 gorp 3.1.0

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```
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The hypothetical commands

```
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# 1.854 x-net 0.10.0



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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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# 1.858 google-golang-org-genproto 0.0.0-20200526211855-cb27e3aa2013

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# 1.859 google-golang-org-genproto 0.0.0-20210602131652-f16073e35f0c

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

```
package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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## 1.861 python-setuptools 67.8.0

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# 1.863 kubernetes-klog 2.100.1

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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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-- vile: txtmode file-encoding=utf-8

# 1.865 systemd 245.4-4ubuntu3.22

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# 1.867 masterminds-semver 3.2.1

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# See <http://logback.qos.ch/license.html> for the applicable licensing

# conditions.

# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender

#

# It is intended for PostgreSQL databases.

```
DROP TABLE access_event_exception;
```

```
DROP SEQUENCE access_event_id_seq;
```

```
DROP TABLE access_event;
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE access_event
```

```
(
```

```
  timestmp      BIGINT NOT NULL,
```

```
  requestURI    VARCHAR(254),
```

```
  requestURL    VARCHAR(254),
```

```
  remoteHost    VARCHAR(254),
```

```
  remoteUser    VARCHAR(254),
```

```
  remoteAddr    VARCHAR(254),
```

```
  protocol      VARCHAR(254),
```

```
  method        VARCHAR(254),
```

```
  serverName    VARCHAR(254),
```

```
  postContent    VARCHAR(254),
```

```
  event_id      BIGINT DEFAULT
```

```
  nextval('access_event_id_seq') PRIMARY KEY
```

```
);
```

```
CREATE TABLE access_event_header
```

```
(
```

```
  event_id      BIGINT NOT NULL,
```

```
  header_key    VARCHAR(254) NOT NULL,
```

```
  header_value  VARCHAR(1024),
```

```
  PRIMARY KEY(event_id, header_key),
```

```
FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/postgresql.sql
```

No license file was found, but licenses were detected in source scan.

```
# Logback: the reliable, generic, fast and flexible logging framework.
```

```
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.
```

```
#
```

```
# See http://logback.qos.ch/license.html for the applicable licensing
```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender.
```

```
#
```

```
# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with
```

```
# INNODB tables.
```

```
BEGIN;
```

```
DROP TABLE IF EXISTS access_event_header;
```

```
DROP TABLE IF EXISTS access_event;
```

```
COMMIT;
```

```
BEGIN;
```

```
CREATE TABLE access_event
```

```
(
```

```
  timestmp      BIGINT NOT NULL,
```

```
  requestURI    VARCHAR(254),
```

```
  requestURL    VARCHAR(254),
```

```
  remoteHost    VARCHAR(254),
```

```
  remoteUser    VARCHAR(254),
```

```
  remoteAddr    VARCHAR(254),
```

```
  protocol      VARCHAR(254),
```

```
  method        VARCHAR(254),
```

```
  serverName    VARCHAR(254),
```

```
  postContent   VARCHAR(254),
```

```
  event_id      BIGINT NOT NULL
```

```
  AUTO_INCREMENT PRIMARY KEY
```

```
);
```

```
COMMIT;
```

```
BEGIN;
```

```
CREATE TABLE access_event_header
```

```
(
```

```
  event_id      BIGINT NOT NULL,
```

```
  header_key    VARCHAR(254) NOT NULL,
```

```
header_value VARCHAR(1024),
PRIMARY KEY(event_id, header_key),
FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
COMMIT;
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/mysql.sql
```

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```
-- Logback: the reliable, generic, fast and flexible logging framework.
```

```
-- Copyright (C) 1999-2010, QOS.ch. All rights reserved.
```

```
--
```

```
-- See http://logback.qos.ch/license.html for the applicable licensing
```

```
-- conditions.
```

```
-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
```

```
--
```

```
-- It is intended for Oracle databases.
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;
```

```
CREATE TABLE access_event
```

```
(
```

```
  timestmp      NUMBER(20) NOT NULL,
```

```
  requestURI    VARCHAR(254),
```

```
  requestURL    VARCHAR(254),
```

```
  remoteHost    VARCHAR(254),
```

```
  remoteUser    VARCHAR(254),
```

```
  remoteAddr    VARCHAR(254),
```

```
  protocol      VARCHAR(254),
```

```
  method        VARCHAR(254),
```

```
  serverName    VARCHAR(254),
```

```
  postContent   VARCHAR(254),
```

```
  event_id      NUMBER(20) PRIMARY KEY
```

```
);
```

```
-- the / suffix may or may not be needed depending on your SQL Client
```

```
--
```

```
Some SQL Clients, e.g. Squirrel SQL has trouble with the following
```

```
-- trigger creation command, while SQLPlus (the basic SQL Client which
```

```
-- ships with Oracle) has no trouble at all.
```

```
CREATE TRIGGER access_event_id_seq_trig
```

```
BEFORE INSERT ON access_event
```

```

FOR EACH ROW
BEGIN
  SELECT access_event_id_seq.NEXTVAL
  INTO   :NEW.event_id
  FROM   DUAL;
END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
(
  event_id   NUMBER(20) NOT NULL,
  header_key VARCHAR2(254) NOT NULL,
  header_value VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

```

Found in path(s):

```

* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/oracle.sql

```

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#

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# conditions.

# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

#

# It is intended for IBM DB2 databases.

#

# WARNING WARNING WARNING WARNING

# =====

# This SQL script has not been tested on an actual DB2

# instance. It may contain errors or even invalid SQL

# statements.

```

DROP TABLE access_event_header;

```

```

DROP TABLE access_event;

```

```

CREATE TABLE access_event

```

```

(

```

```

  timestmp      BIGINT NOT NULL,

```

```

  requestURI    VARCHAR(254),

```

```

  requestURL    VARCHAR(254),

```

```

  remoteHost    VARCHAR(254),

```

```

  remoteUser    VARCHAR(254),

```



```
remoteAddr    VARCHAR(254),
protocol      VARCHAR(254),
method       VARCHAR(254),
serverName   VARCHAR(254),
postContent   VARCHAR(254),
event_id     INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
);
```

```
CREATE TABLE access_event_header
(
  event_id    INTEGER NOT NULL,
  header_key  VARCHAR(254) NOT NULL,
  header_value VARCHAR(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/db2.sql
```

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```
/**
```

```
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*
* This program and the accompanying materials are dual-licensed under
* either the terms of the Eclipse Public License v1.0 as published by
* the Eclipse Foundation
*
* or (per the licensee's choosing)
*
* under the terms of the GNU Lesser General Public License version 2.1
* as published by the Free Software Foundation.
*/
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/SessionIDConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/QueryStringConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ThreadNameConverter.java
```

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```
/**
 * Logback: the reliable, generic, fast and flexible logging framework.
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 *
 * This program and the accompanying materials are dual-licensed under
 * either the terms of the Eclipse Public License v1.0 as published by
 * the Eclipse Foundation
 *
 * or (per the licensee's choosing)
 *
 * under the terms of the GNU Lesser General Public License version 2.1
 * as published by the Free Software Foundation.
 */
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SocketNode.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/AccessContext.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SMTPAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/filter/PeriodicStats.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/servlet/Util.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/AccessConstants.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/html/DefaultCssBuilder.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
```

jar/ch/qos/logback/access/pattern/AccessConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RemoteHostConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestContentConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/html/HTMLLayout.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/StatsByDay.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/joran/action/EvaluatorAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/StatsByWeek.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/PatternLayoutEncoder.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RemoteUserConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/jetty/JettyServerAdapter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/NAConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/spi/IAccessEvent.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/tomcat/LogbackValve.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/filter/CountingFilter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/RequestCookieConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/pattern/LocalPortConverter.java

\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeFilter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURLConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatisticalView.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/DateConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMonth.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogImpl.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SSLSocketAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByHour.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/JoranConfigurator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMinute.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-

```
jar/ch/qos/logback/access/spi/AccessEvent.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/RequestURICConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/URLEvaluator.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SocketAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/ServerAdapter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/sift/SiftingAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/Util.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/PatternLayout.java
No license file was found, but licenses were detected in source scan.
```

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--

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-- conditions.

-- This SQL script creates the required tables by `ch.qos.logback.access.db.DBAppender`

--

```
DROP TABLE access_event_header
```

```
DROP TABLE access_event
```

```
CREATE TABLE access_event
```

```
(  
  timestmp      BIGINT NOT NULL,  
  requestURI    VARCHAR(254),  
  requestURL    VARCHAR(254),  
  remoteHost    VARCHAR(254),  
  remoteUser    VARCHAR(254),  
  remoteAddr    VARCHAR(254),  
  protocol      VARCHAR(254),  
  method        VARCHAR(254),  
  serverName    VARCHAR(254),  
  postContent   VARCHAR(254),  
  event_id      INT NOT NULL identity,  
  PRIMARY KEY(event_id)  
)
```

```
CREATE TABLE access_event_header
```

```
(  
  event_id      INT NOT NULL,  
  header_key    VARCHAR(254) NOT NULL,  
  header_value  VARCHAR(1024),  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
)
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/db/script/msSQLServer.sql
```

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```
# Logback: the reliable, generic, fast and flexible logging framework.
```

```
# Copyright (C) 1999-2010, QOS.ch. All rights reserved.
```

```
#
```

```
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```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
```

```
#
```

```
# It is intended for HSQL databases.
```

```
DROP TABLE access_event_header IF EXISTS;
```

```
DROP TABLE access_event IF EXISTS;
```

```
CREATE TABLE access_event (  
  timestmp BIGINT NOT NULL,  
  requestURI VARCHAR(254),  
  requestURL VARCHAR(254),  
  remoteHost VARCHAR(254),  
  remoteUser VARCHAR(254),  
  remoteAddr VARCHAR(254),  
  protocol VARCHAR(254),  
  method VARCHAR(254),  
  serverName VARCHAR(254),  
  postContent VARCHAR(254),  
  event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE access_event_header (  
  event_id BIGINT NOT NULL,  
  header_key VARCHAR(254) NOT NULL,  
  header_value LONGVARCHAR,  
  PRIMARY KEY(event_id, header_key),  
  FOREIGN KEY  
  (event_id) REFERENCES access_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/db/script/hsqldb.sql
```

# 1.870 openssl 1.1.1f-1ubuntu2.19

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=====

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\*/

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-----

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\*

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Any executables

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |

|               |           |          |     |     |
|---------------|-----------|----------|-----|-----|
| 2.1           | 2.0+1.6.1 | 2001     | PSF | no  |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF | yes |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF | yes |
| 2.1.2         | 2.1.1     | 2002     | PSF | yes |
| 2.1.3         | 2.1.2     | 2002     | PSF | yes |
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These units are the ones used to build Configure and config\_h.SH in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.

Files in this directory:

README

This file.

Glossary.patch

The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

In-all.pl

Re-generate the all/ folder

mkglossary

A script to regenerate Porting/Glossary. You have to manually edit

the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

#### mkgloss.pl

A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

#### mksample

A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

#### Subdirectories:

The units and other related files have been broken up into the following directories.

#### a\_dvisory/

These are units that have to go first in the generated config\_h.SH. A word of explanation: Configure and config\_h.SH are generated from 'Units' (the \*.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies. However, config\_h.SH is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.) The a\_dvisory/ directory, then, is a place to put units that need to be early in config\_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

#### acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

#### all/

A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config\_h.SH.

#### compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX\_SOURCE, but that's the only place it is perl-specific.)

#### dist\_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

#### ebcdic/

These are units that had to be specially modified to work under either EBCDIC or ASCII.

#### installdirs/

These are units to handle perl's installation directories and related issues.

#### modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

#### nullified/

These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

#### perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

#### perl\_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

#### protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

#### threads/

These are specific to threading perl.

#### typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typedef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for \*me\* to actively maintain it, the units just sit here.

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Andy Dougherty [doughera@lafayette.edu](mailto:doughera@lafayette.edu)

Dept. of Physics

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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\* @version 3.0 (December 2000)

\*

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\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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jar/netty_epoll_linuxsocket.h
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```

Found in path(s):

```
* /opt/cola/permits/1716073999_1686339521.5715072/0/netty-transport-native-epoll-4-1-92-final-sources-
jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml
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```
* /opt/cola/permits/1716073999_1686339521.5715072/0/netty-transport-native-epoll-4-1-92-final-sources-
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```

# 1.891 Iz4 1.5.2

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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## 1.894 scala-collection-compat\_2.13 2.10.0

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## 1.895 reload4j 1.2.25

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.



In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
| 2.5.3   | 2.5.2        | 2008 | PSF   | yes                 |
| 2.6     | 2.5          | 2008 | PSF   | yes                 |
| 2.6.1   | 2.6          | 2008 | PSF   | yes                 |
| 2.6.2   | 2.6.1        | 2009 | PSF   | yes                 |
| 2.6.3   | 2.6.2        | 2009 | PSF   | yes                 |
| 2.6.4   | 2.6.3        | 2009 | PSF   | yes                 |
| 2.6.5   | 2.6.4        | 2010 | PSF   | yes                 |
| 3.0     | 2.6          | 2008 | PSF   | yes                 |
| 3.0.1   | 3.0          | 2009 | PSF   | yes                 |
| 3.1     | 3.0.1        | 2009 | PSF   | yes                 |
| 3.1.1   | 3.1          | 2009 | PSF   | yes                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
| 2012    | PSF          | yes  |       |                     |

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Python was created in the early 1990s by Guido van Rossum at Stichting  
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as a successor of a language called ABC. Guido remains Python's  
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
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| Release        | Derived<br>from | Year      | Owner      | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |



|       |           |           |     |     |
|-------|-----------|-----------|-----|-----|
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF | yes |
| 2.2   | 2.1.1     | 2001      | PSF | yes |
| 2.1.2 | 2.1.1     | 2002      | PSF | yes |
| 2.1.3 |           |           |     |     |
| 2.1.2 | 2002      | PSF       | yes |     |
| 2.2.1 | 2.2       | 2002      | PSF | yes |
| 2.2.2 | 2.2.1     | 2002      | PSF | yes |
| 2.2.3 | 2.2.2     | 2003      | PSF | yes |
| 2.3   | 2.2.2     | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3       | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3     | 2004      | PSF | yes |
| 2.3.5 | 2.3.4     | 2005      | PSF | yes |
| 2.4   | 2.3       | 2004      | PSF | yes |
| 2.4.1 | 2.4       | 2005      | PSF | yes |
| 2.4.2 | 2.4.1     | 2005      | PSF | yes |
| 2.4.3 | 2.4.2     | 2006      | PSF | yes |
| 2.4.4 | 2.4.3     | 2006      | PSF | yes |
| 2.5   | 2.4       | 2006      | PSF | yes |
| 2.5.1 | 2.5       | 2007      | PSF | yes |
| 2.5.2 | 2.5.1     | 2008      | PSF | yes |
| 2.5.3 | 2.5.2     | 2008      | PSF | yes |
| 2.6   | 2.5       | 2008      | PSF | yes |
| 2.6.1 | 2.6       | 2008      | PSF | yes |
| 2.6.2 | 2.6.1     | 2009      | PSF | yes |
| 2.6.3 | 2.6.2     | 2009      | PSF | yes |
| 2.6.4 | 2.6.3     | 2009      | PSF | yes |
| 2.6.5 | 2.6.4     | 2010      | PSF | yes |
| 3.0   | 2.6       | 2008      | PSF | yes |
| 3.0.1 | 3.0       | 2009      | PSF | yes |
| 3.1   | 3.0.1     | 2009      | PSF | yes |
| 3.1.1 | 3.1       | 2009      | PSF | yes |
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
WEV @@ WEV[B "1
```

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# 1.900 libcap 2.32-1ubuntu0.1

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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# 1.906 google-golang-org-genproto 0.0.0- 20230403163135-c38d8f061ccd

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# 1.907 logrus 1.9.3

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src/base/md5.h
#
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src/bdf/bdfdrivr.c
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src/bdf/bdferror.h
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#
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src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
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src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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# 1.918 metrics-httpclient 4.2.19

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.httpclient  
Build-Jdk-Spec: 11  
Bundle-Description: An Apache HttpClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Apache HttpClient  
Bundle-SymbolicName: io.dropwizard.metrics.httpclient  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.httpclient;uses:="com.codahale.metrics,org.apache.http,org.apache.http.config,org.apache.http.conn,org

.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http  
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers  
ion="4.2.19"

Implementation-Title: Metrics Integration for Apache HttpClient

Implementation-Version: 4.2.19

Import-Package:

com.codahale.metrics;version="[4.2,5)",org.apache.http  
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt  
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache  
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s  
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h  
ttp.pool,org.apache.http.protocol

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1734075126\_1695634098.003408/0/metrics-httpclient-4-2-19-jar/META-INF/MANIFEST.MF

# 1.919 guava 32.1.1-jre

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Doug Lea

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Found in path(s):

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
```

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/ValueConverter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/CharSequenceValueConverter.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
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* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/META-INF/native-
image/io.netty.netty-codec/native-image.properties
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* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/EncoderUtil.java
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* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
*
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DateFormat.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
```



\* decode a binary message which has an integer header field that represents the length of the message body or the whole message.

\*

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so that it can decode any message with a length field, which is often seen in proprietary client-server protocols. Here are some example that will give you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

\* <pre>

```
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```
* +-----+-----+      +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +-----+-----+      +-----+-----+
```

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, strip header</h3>

\*

\* Because we can get the length of the content by calling { @link ByteBuf#readableBytes() }, you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to strip the first two bytes.

\* <pre>

```
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)

```
* +-----+-----+      +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +-----+-----+      +-----+
```

```

* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*   represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |   | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*

```

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" |   | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

\* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field`</h3>`

\* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

\* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field, the length field  
 \* represents the length of the whole message`</h3>`

\* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the

```

* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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```

-->

```

Found in path(s):

```

* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/META-
INF/maven/io.netty/netty-codec/pom.xml

```

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```

/*

```

```

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\*/

Found in path(s):

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Snappy.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CodecException.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

```
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/package-info.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
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* under the License.
*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for { @link ByteBuffer } that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
*/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
```

\* The internal lookup tables in this class has been derived from  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
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jar/io/netty/handler/codec/DefaultHeaders.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/Headers.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Zstd.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Brotli.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

\*

```
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/DeflateOptions.java
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
```

# 1.921 netty-transport-native-unix-common

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java  
\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_util.c  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/SocketWritableByteChannel.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/Limits.java

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jar/io/netty/channel/unix/DomainSocketChannel.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/netty\_unix\_errors.h

\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/netty\_unix\_socket.h

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/ServerDomainSocketChannel.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/FileDescriptor.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/Socket.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/netty\_unix\_filedescriptor.c

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/netty\_unix\_filedescriptor.h

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/Errors.java

\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/NativeInetAddress.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-

jar/io/netty/channel/unix/UnixChannel.java

```
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_socket.c
*
/opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java  
\*  
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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_jni.h

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/IovArray.java  
\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/package-info.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Unix.java

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java  
\*

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramChannel.java

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jar/netty_unix.c
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
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# 1.922 netty-resolver 4.1.94.Final

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```

Found in path(s):

```
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
```

```
jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/CompositeNameResolver.java
*
/opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileParser.java
```

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```
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/META-
INF/maven/io.netty/netty-resolver/pom.xml
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\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NoopAddressResolver.java  
\*

/opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/package-info.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/SimpleNameResolver.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/AddressResolverGroup.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NameResolver.java

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Found in path(s):

\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

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```
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileEntries.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/ResolvedAddressTypes.java
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```
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
```

## 1.923 netty-handler 4.1.94.Final

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```
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/META-INF/maven/io.netty/netty-handler/pom.xml
```

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```
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties
```

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/package-info.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java  
\*  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
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jar/io/netty/handler/ssl/GroupsConverter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslContextOption.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/BouncyCastle.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslContextOption.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/Ciphers.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionId.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/IPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapWriter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/UDPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/TCPpacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/flow/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/flush/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/logging/LogLevel.java

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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/TimeoutException.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedFile.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedStream.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedInput.java  
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jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
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jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslProvider.java  
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jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
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jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
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jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
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jar/io/netty/handler/ssl/JdkSslClientContext.java  
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jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
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jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
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jar/io/netty/handler/ssl/OpenSslEngineMap.java  
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jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
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jar/io/netty/handler/ssl/CipherSuiteConverter.java  
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jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
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jar/io/netty/handler/ssl/OpenSslSessionStats.java  
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jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
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jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java

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jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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jar/io/netty/handler/ssl/ClientAuth.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/logging/ByteBufFormat.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/ResolveAddressHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/IpSubnetFilter.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslClosedEngineException.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSession.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java  
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* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/flow/FlowControlHandler.java
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## 1.924 netty-transport-classes-epoll

### 4.1.94.Final

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* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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```

```
*/
```

```
/**
```

```
* Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
```

```
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
```

```
* Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See TCP\_QUICKACK
 * for more details.
 */
```

Found in path(s):

```
* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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 */
```

```
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
```

Found in path(s):

```
* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java

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/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/package-info.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java

\*

/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java

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/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

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jar/io/netty/channel/CoalescingBufferQueue.java

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jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/bootstrap/FailedChannel.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/internal/ChannelUtils.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/PendingBytesTracker.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java  
\*  
/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelFactory.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/PendingWriteQueue.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/AbstractEventLoop.java  
\*  
/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannelId.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ReflectiveChannelFactory.java

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jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
\*

```
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/SimpleChannelPool.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
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```

```
*/
```

```
/**
```

```
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
* its { @link ChannelPipeline }.
```

```
*
```

```
* <h3>Sub-types</h3>
```

```
* <p>
```

```
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
subtypes:
```



```

* <ul>
* <li>{ @link
ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
* object. A { @link ChannelHandler } is supposed to interact with the
* { @link ChannelPipeline } it belongs to via a context object. Using the
* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically,
* or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {

```

```

*     ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*     } else {
*         fail();
*     }
*
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where an unauthenticated client can get the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{@link Channel}&gt; {
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>

```

\* <h4>Using { @link AttributeKey}s</h4>

\* Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use { @link AttributeKey}s which is provided by { @link ChannelHandlerContext}:

```

* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;

```

```

*     } else (message instanceof GetDataMessage) {
*         if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*         } else {
*             fail();
*         }
*     }
* }
* }
* ...
* }
* </pre>

```

\* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```

* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&{ @link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>In the example above which used an { @link AttributeKey}, you might have noticed the { @code @Sharable} annotation.

\* <p>If a { @link ChannelHandler} is annotated with the { @code @Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more { @link ChannelPipeline}s multiple times without a race condition.

\* <p>If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

\* <p>This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

\* <h3>Additional resources worth reading</h3>

\* <p>Please refer to the { @link ChannelHandler}, and

\* {@link ChannelPipeline} to find out more about inbound and outbound operations,  
\* what fundamental differences they have, how they flow in a pipeline, and how to handle  
\* the operation in your application.  
\*/

Found in path(s):

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelHandler.java

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* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelInboundInvoker.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/SelectStrategy.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelOutboundInvoker.java
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* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
```

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jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelId.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
*
/opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java

```

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java

\*

/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java

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jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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Found in path(s):

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/local/LocalServerChannel.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/local/LocalChannelRegistry.java

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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/FileRegion.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelDuplexHandler.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/DefaultEventLoopGroup.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelOutboundHandler.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/embedded/package-info.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-



jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/DefaultChannelPipeline.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelMetadata.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/oio/OioEventLoopGroup.java  
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jar/io/netty/channel/ChannelException.java  
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jar/io/netty/channel/ChannelFutureListener.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
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jar/io/netty/channel/AbstractChannel.java  
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jar/io/netty/channel/socket/ServerSocketChannel.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/nio/NioTask.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/CompleteChannelFuture.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/Channel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/SocketChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultEventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/Bootstrap.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultFileRegion.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/SucceededChannelFuture.java  
\*

/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/nio/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/VoidChannelPromise.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java

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* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/cola/permits/1735716162_1688166869.6417358/0/netty-transport-4-1-94-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java
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jar/io/netty/channel/socket/nio/SelectorProviderUtil.java
```

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ByteProcessor.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/svm/package-info.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/Hidden.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ThreadExecutorMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ObjectPool.java

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jar/io/netty/util/internal/UnstableApi.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/RejectedExecutionHandlers.java  
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jar/io/netty/util/internal/OutOfDirectMemoryError.java  
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jar/io/netty/util/concurrent/PromiseCombiner.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/concurrent/UnaryPromiseNotifier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/Log4J2Logger.java



\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/SocketUtils.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakTracker.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/IntSupplier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/BooleanSupplier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/MacAddressUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ThrowableUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java  
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- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
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- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
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- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
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- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ReferenceCountUtil.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/EmptyArrays.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeak.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakException.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FailedFuture.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DefaultAttributeMap.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Attribute.java  
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jar/io/netty/util/HashedWheelTimer.java

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jar/io/netty/util/Signal.java

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Found in path(s):

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/AsyncMapping.java

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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/LongCounter.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/HashingStrategy.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java

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  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
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<junit.version>4.12</junit.version>
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</properties>
</project>
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakHint.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/AsciiString.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/concurrent/PromiseNotifier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Mapping.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ThreadDeathWatcher.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/IntegerHolder.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DomainNameMapping.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCGrowablesAtomicArrayQueue.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java

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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
*
/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
*
/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-
INF/native-image/io.netty/netty-common/native-image.properties
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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```
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/ThreadLocalRandom.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongCollections.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ObjectUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/LongObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntCollections.java  
\*  
/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/IntObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortCollections.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ShortObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteObjectHashMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/ByteObjectMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/collection/CharObjectHashMap.java  
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```
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/MessageFormatter.java  
*
```

```
/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/FormattingTuple.java
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ClassInitializerUtil.java

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jar/io/netty/util/internal/ResourcesUtil.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/ByteProcessorUtils.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/LongAdderCounter.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/PriorityQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/ReflectionUtil.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/EmptyPriorityQueue.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/SuppressForbidden.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-  
jar/io/netty/util/UncheckedBooleanSupplier.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/internal/ObjectCleaner.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/NettyRuntime.java

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jar/io/netty/util/internal/CleanerJava9.java

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jar/io/netty/util/concurrent/FastThreadLocalRunnable.java

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## 1.927 metrics 4.2.19

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## 1.929 google-gnostic-models 0.6.8

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## 1.933 kubernetes-apimachinery 0.27.3

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# 1.938 kubernetes-apiserver 0.27.3

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# 1.939 pflag 1.0.5

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package migration

```
import "fmt"
```

```
// Notice is a migration warning
```

```
type Notice struct {
```

```
    Plugin    string
```

```
    Option    string
```

```
    Severity  string // 'deprecated', 'removed', or 'unsupported'
```

```
    ReplacedBy string
```

```
    Additional string
```

```
    Version   string
```

```
}
```

```
func (n *Notice) ToString() string {
```

```
    s := ""
```

```
    if n.Option == "" {
```

```
        s += fmt.Sprintf("Plugin "%v" `, n.Plugin)
```

```
    } else {
```

```
        s += fmt.Sprintf("Option "%v" in plugin "%v" `, n.Option, n.Plugin)
```

```
    }
```

```
    if n.Severity == SevUnsupported {
```

```
        s += "is unsupported by this migration tool in " + n.Version + "."
```

```
    } else if n.Severity == SevNewDefault {
```

```
        s += "is added as a default in " + n.Version + "."
```

```
    } else {
```

```
        s += "is " + n.Severity + " in " + n.Version + "."
```

```
    }
```

```
    if n.ReplacedBy != "" {
```

```
        s += fmt.Sprintf(" It is replaced by "%v".`, n.ReplacedBy)
```

```
    }
```

```
    if n.Additional != "" {
```

```
        s += " " + n.Additional
```

```
    }
```

```
    return s
```

```
}
```

```
const (
```

```
// The following statuses are used to indicate the state of support/deprecation in a given release.
```

```
SevDeprecated = "deprecated"
```

```
// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not
present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

```
// The following statuses are used for selecting/filtering notifications
```

```
SevAll = "all" // show all statuses
```

```
)
```

AWS SDK for Go

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Prometheus instrumentation library for Go applications

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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#  
# Auto-generated with:  
# git log --oneline --pretty=format:'%an <%aE>' | sort -u  
#  
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Dmitri Shuralyov <shurcool@gmail.com>  
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package simulator

import (

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/soap"

"github.com/vmware/govmomi/vim25/types"

)

// EvalLicense is the default license

var EvalLicense = types.LicenseManagerLicenseInfo{

LicenseKey: "00000-00000-00000-00000-00000",

EditionKey: "eval",

Name: "Evaluation Mode",

Properties: []types.KeyAnyValue{

{

Key: "feature",

Value: types.KeyValue{

Key: "serialuri:2",

Value: "Remote virtual Serial Port Concentrator",

},

},

{

Key: "feature",

Value: types.KeyValue{

```

    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
},
},
}

type LicenseManager struct {
  mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if
  r.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }

  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:    req.Labels,
  })

  body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

  return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
  body := &methods.RemoveLicenseBody{
    Res: &types.RemoveLicenseResponse{},
  }
}

```

```

for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
        return body
    }
}
return
body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key: req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {

```

```

mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
body := &methods.QueryAssignedLicensesBody{
Res: &types.QueryAssignedLicensesResponse{ },
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
info.Labels = labels

return info
}

```

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=====  
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// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

    Name string `json:"name,omitempty"`

    URL string `json:"url,omitempty"`

}

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Go support for Protocol Buffers - Google's data interchange format

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proefs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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=====  
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=====

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Version 2.1, February 1999

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# 1.948 jdk-zulu 8.72.0.17

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## 1.967 metrics-jvm 4.2.19

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## 1.969 metrics-jetty 4.2.19

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.jetty9

Build-Jdk-Spec: 11

Bundle-Description: A set of extensions for Jetty 9.3 and higher which  
provide instrumentation of thread pools, connector metrics, a  
nd application latency and utilization.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jetty 9.3 and higher

Bundle-SymbolicName: io.dropwizard.metrics.jetty9

Bundle-Version: 4.2.19

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric  
s,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,or

g.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.  
handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.comp  
onent,org.eclipse.jetty.util.thread";version="4.2.19"  
Implementation-Title: Metrics Integration for Jetty  
9.3 and higher  
Implementation-Version: 4.2.19  
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht  
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com  
.codahale.metrics.annotation;version="[4.2,5)",org.eclipse.jetty.http  
;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclip  
se.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;v  
ersion="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)  
",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jet  
ty.util.thread;version="[9.4,10)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1750760659\_1690280984.1164134/0/metrics-jetty9-4-2-19-jar/META-INF/MANIFEST.MF

# 1.970 metrics-logback 4.2.19

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.logback  
Build-Jdk-Spec: 11  
Bundle-Description: An instrumented appender for Logback.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Logback  
Bundle-SymbolicName: io.dropwizard.metrics.logback  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.clas  
sic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.19"  
Implementation-Title: Metrics Integration for Logback  
Implementation-Version: 4.2.19  
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac  
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"  
,com.codahale.metrics;version="[4.2,5)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\*

# 1.971 metrics-jersey2 4.2.19

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Manifest-Version: 1.0  
Automatic-Module-Name: com.codahale.metrics.jersey2  
Build-Jdk-Spec: 11  
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jersey 2.x  
Bundle-SymbolicName: io.dropwizard.metrics.jersey2  
Bundle-Version: 4.2.19  
Created-By: Apache Maven Bundle Plugin 5.1.9  
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.2.19"  
Implementation-Title: Metrics Integration for Jersey 2.x  
Implementation-Version: 4.2.19  
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.metrics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.39,3)",org.glassfish.jersey.server.model;version="[2.39,3)",org.glassfish.jersey.server.monitoring;version="[2.39,3)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1750760630\_1690280989.7830713/0/metrics-jersey2-4-2-19-jar/META-INF/MANIFEST.MF

# 1.972 metrics-caffeine 4.2.19

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Found in path(s):

\* /opt/cola/permits/1754271858\_1690525899.9397342/0/metrics-caffeine-4-2-19-sources-jar/com/codahale/metrics/caffeine/MetricsStatsCounter.java

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# 1.978 amqp-client 5.17.0

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Manifest-Version: 1.0

Bundle-Description: The RabbitMQ Java client library allows Java applications to interface with RabbitMQ.

Implementation-Title: RabbitMQ Java Client

Automatic-Module-Name: com.rabbitmq.client

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>, <https://www.gnu.org/licenses/gpl-2.0.txt>, <https://www.mozilla.org/en-US/MPL/2.0/>

Bundle-SymbolicName: com.rabbitmq.client

Implementation-Version: 5.17.0

Bnd-LastModified: 1679415883917

Bundle-ManifestVersion: 2

Specification-Vendor: AMQP Working Group ([www.amqp.org](http://www.amqp.org))

Specification-Title: AMQP

Bundle-DocURL: <https://www.rabbitmq.com>

Bundle-Vendor: VMware, Inc. or its affiliates.

Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=optional,com.fasterxml.jackson.core;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind.node;version="[2.14,3)";resolution:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tools.json,com.rabbitmq.utility,io.micrometer.core.instrument;resolution:=optional,io.opentelemetry.api;resolution:=optional,io.opentelemetry.api.common;resolution:=optional,io.opentelemetry.api.metrics;resolution:=optional,javax.naming,javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.callback,javax.security.auth.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Implementation-Vendor: VMware, Inc. or its affiliates.

Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,javax.net,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr

ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java  
x.net.ssl";version="5.17.0",com.rabbitmq.client.impl.nio;uses:="com.r  
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.17.  
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r  
abbitmq.client.impl";version="5.17.0",com.rabbitmq.tools;version="5.1  
7.0",com.rabbitmq.tools.json;version="5.17.0",com.rabbitmq.tools.json  
rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,  
com.rabbitmq.client";version="5.17.0",com.rabbitmq.utility;version="5  
.17.0"

Bundle-Name: RabbitMQ Java Client

Bundle-Version: 5.17.0

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.8

Implementation-URL: <https://www.rabbitmq.com>

Specification-Version: 0.9.1

Found in path(s):

\* /opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-jar/META-INF/MANIFEST.MF

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/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-  
jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches

/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-  
jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):

\* /bin/grep

# 1.979 metrics-graphite 4.2.19

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Manifest-Version: 1.0

Automatic-Module-Name: com.codahale.metrics.graphite

Build-Jdk-Spec: 11

Bundle-Description: A reporter for Metrics which announces measurement  
s to a Graphite server.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Graphite Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.graphite

Bundle-Version: 4.2.19

Created-By: Apache Maven Bundle Plugin 5.1.9

Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metri  
cs,com.rabbitmq.client,javax.net";version="4.2.19"

Implementation-Title: Graphite Integration for Metrics

Implementation-Version: 4.2.19

Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics

;version="[4.2,5)",com.rabbitmq.client;version="[5.17,6)",javax.net

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1758004481\_1690997391.3641589/0/metrics-graphite-4-2-19-jar/META-INF/MANIFEST.MF

# 1.980 dropwizard-metrics-graphite 2.1.7

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# 1.981 x-net 0.13.0

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## 1.982 x-oauth2 0.10.0

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# 1.983 mobile-cnat-golang-lib-go-diameter

## 4.0.6-0.20230802184116-1192ff7e0992

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#
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```

```
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David Wilkie <dwilkie@gmail.com>
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#  
# Use the following command to generate the list  
#  
# git shortlog -se | awk '{print $2 " " $3 " " $4}'  
#  
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```

```
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David Wilkie <dwilkie@gmail.com>  
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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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# 1.989 gopkg.in-yaml 3.0.1

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# 1.990 yaml 1.3.0

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## 1.993 protobuf 1.28.1

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# 1.994 protobuf 1.30.0

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Md5.kt

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Utf8.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/NonJvmPlatform.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-

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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Buffer.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Sink.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Okio.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSource.kt  
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
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For the following XML

Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd

- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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may be obtained from:

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For the xml\expat\conf\tools\install-sh component:

```
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# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
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modifications by Spyglass Inc., Carnegie Mellon University, and  
Bell Communications Research, Inc (Bellcore).

## 1.1015 vim 8.1.2269-1ubuntu5.17

## 1.1016 zookeeper-jute 3.8.2

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```

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```
*/
```

```
-->
```

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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml

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\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/RccConstants.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/rcc.jj

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/Rcc.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/generated/Token.java

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\*

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\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JType.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JavaGenerator.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFloat.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JInt.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JBoolean.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JVector.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFile.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/InputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/RecordWriter.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Index.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/ToStringOutputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JRecord.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JByte.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JString.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Record.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JMap.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Utils.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/RecordReader.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JLong.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JBuffer.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/CSharpGenerator.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JField.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/BinaryOutputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/BinaryInputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JCompType.java  
\*



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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/CppGenerator.java  
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```
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java  
*  
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/StatPersisted.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/TxnHeader.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CreateResponse.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetACLRequest.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java  
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SyncRequest.java  
*
```

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/ACL.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/MultiTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetWatches.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/Txn.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateTTLTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/ClientInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/Id.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetChildrenResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/WatcherEvent.java

\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/WhoAmIResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/Create2Response.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/AuthPacket.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ConnectResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ErrorResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
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jar/org/apache/zookeeper/proto/CreateTTLRequest.java  
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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetDataRequest.java  
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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

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jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/txn/TxnDigest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetDataResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
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* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/DeleteRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
```

## 1.1017 zookeeper 3.8.2

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jar/org/apache/zookeeper/server/ContainerManager.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

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jar/org/apache/zookeeper/server/EphemeralType.java

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\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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jar/org/apache/zookeeper/server/watch/WatchesPathReport.java  
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jar/org/apache/zookeeper/server/watch/WatchesReport.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatchesSummary.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Op.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/MultiResponse.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/MultiOperationRecord.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/OpResult.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/ZooKeeperServerConf.java  
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jar/org/apache/zookeeper/common/PathUtils.java

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jar/org/apache/zookeeper/common/PathTrie.java

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jar/org/apache/zookeeper/server/util/MessageTracker.java

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jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/metrics/Counter.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/ZooTrace.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/QuorumStats.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/DataTreeBean.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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jar/org/apache/zookeeper/server/admin/JsonOutputter.java  
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jar/org/apache/zookeeper/server/SessionTrackerImpl.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/UnimplementedRequestProcessor.java  
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jar/org/apache/zookeeper/server/util/OSMXBean.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/DataTreeMXBean.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthLearner.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/CreateMode.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/PKCS12FileLoader.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/persistence/SnapStream.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/CliException.java



\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/command/EnvCommand.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/metrics/MetricsProvider.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumVerifier.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/admin/UnifiedConnectionFactory.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/auth/SaslServerCallbackHandler.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/ReadOnlyZooKeeperServer.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/SecretUtils.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/Election.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/WhoAmICommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/GetConfigCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/ProposalRequestProcessor.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/metric/AvgMinMaxCounter.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/MalformedPathException.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/persistence/TxnLog.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumCnxManager.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/Learner.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/ClientCnxnSocketNetty.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-

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jar/org/apache/zookeeper/server/util/AdHash.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/server/quorum/LeaderElectionBean.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/ZooKeeperTestable.java
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/Version.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/command/TraceMaskCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/version/Info.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/Watcher.java
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/ReadOnlyRequestProcessor.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/server/PrepRequestProcessor.java
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jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthServer.java
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/SessionTracker.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/util/BitMap.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/auth/EnsembleAuthenticationProvider.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/persistence/FilePadding.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/Time.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/audit/AuditLogger.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/admin/Commands.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeerMain.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/ReadOnlyBean.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/SetQuotaCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ZKDatabase.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/auth/ServerAuthenticationProvider.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/ZooKeeper.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderRequestProcessor.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/util/KerberosUtil.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/WorkerService.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/audit/ZKAuditProvider.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/DumbWatcher.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderMXBean.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/MalformedCommandException.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerSyncRequest.java

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jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java  
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jar/org/apache/zookeeper/server/quorum/LocalSessionTracker.java  
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jar/org/apache/zookeeper/common/FileKeyStoreLoaderBuilderProvider.java  
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jar/org/apache/zookeeper/server/quorum/SendAckRequestProcessor.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/ServerAdminClient.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/admin/ReadAheadEndpoint.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/ListQuotaCommand.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/ObserverZooKeeperServer.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/AtomicFileOutputStream.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/PrependableSocket.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/LeaderBean.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/AddAuthCommand.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/auth/NullQuorumAuthServer.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/JKSFileLoader.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ObserverBean.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/DeleteAllCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ZooKeeperServerListener.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/admin/DummyAdminServer.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/audit/AuditEvent.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/SSLContextAndOptions.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-

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jar/org/apache/zookeeper/server/RateLogger.java
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/client/HostProvider.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/ObserverMXBean.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ExitCode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/NIOServerCnxnFactory.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/ClientCnxnSocketNIO.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/flexible/QuorumOracleMaj.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/IOUtils.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthServer.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/auth/KeyAuthenticationProvider.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/WatcherCleaner.java

```

```

* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/WatchManagerOptimized.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/KeyStoreLoader.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/util/BitHashSet.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/ClientWatchManager.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/client/ZKClientConfig.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Shell.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ServerCnxnFactory.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/IDeadWatcherListener.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/CliCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/ObserverRequestProcessor.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/ZKConfig.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxPercentileCounterSet.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/metrics/CounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/GetCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ServerStats.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/AddWatchMode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/KeyStoreFileType.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/NettyServerCnxn.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/X509Exception.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/SaslClientCallbackHandler.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/FollowerBean.java

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```
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/TxnLogEntry.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbedded.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/BCFKSFileLoader.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/WatcherMode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/CommandClient.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControlCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/SnapshotComparer.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/PathParentIterator.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/embedded/ExitHandler.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/util/CircularBlockingQueue.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControllerServerConfig.java
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/MultipleAddresses.java

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jar/org/apache/zookeeper/common/StringUtils.java

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jar/org/apache/zookeeper/server/Request.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/SyncCommand.java

\*

/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/VersionCommand.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-

```
jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/LsCommand.java
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```
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbeddedImpl.java
```

# 1.1018 mergo 0.3.6

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

site: string

author: root

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
# This source code was written by the Go contributors.
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```



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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{ "name": "the name", "url": "the url" }`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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# 1.1024 kubernetes-api 0.28.2

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# 1.1025 kubernetes-apimachinery 0.28.2

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# 1.1029 evanphx-json-patch 5.7.0

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== Contributors ==

- \* Tatu Saloranta
  - \* Providing benchmark suite
- \* Alec Wysoker
  - \* Performance and memory usage improvement

# 1.1032 golang 1.20.8

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# 1.1033 netty-transport-native-epoll

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# 1.1034 gopkg.in-yaml 2.4.0

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Changes:

- \* Renamed files from `civil*` to `localtime*`.
- \* Package changed from `civil` to `toml`.
- \* 'Local' prefix added to all structs.

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# 1.1036 kubernetes-kubectl 0.28.2

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# 1.1041 google-golang-org-genproto 0.0.0- 20200513103714-09dca8ec2884

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

Apache Tomcat

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
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For the following XML

Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd

- javaee\_web\_services\_1\_2.xsd

- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- `javaee_web_services_client_1_2.xsd`
- `javaee_6.xsd`
- `javaee_web_services_1_3.xsd`
- `javaee_web_services_client_1_3.xsd`
- `jsp_2_2.xsd`
- `web-app_3_0.xsd`

- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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may be obtained from:

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For the following XML

Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd

- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd



- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

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# 1.1046 toml v1.2.1

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## 1.1047 kotlin 1.9.10

### 1.1047.1 Available under license :

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```
(root, factory) {\n  if (typeof define === 'function' && define.amd) {\n    define('kotlin', ['exports'], factory);\n  }\n  else if (typeof exports === 'object') {\n    factory(module.exports);\n  }\n  else {\n    root.kotlin = {};\n    factory(root.kotlin);\n  }\n}(this, function (Kotlin) {\n  var _ = Kotlin;\n  insertContent();\n});\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
```

```
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\nKotlin.isArray = function (a) {\n  return (Array.isArray(a) || a instanceof\n  Int8Array) && a.$type$ === \"BooleanArray\";\n}\n\nKotlin.isByteArray = function (a) {\n  return a instanceof\n  Int8Array && a.$type$ !== \"BooleanArray\";\n}\n\nKotlin.isShortArray = function (a) {\n  return a instanceof\n  Int16Array;\n}\n\nKotlin.isCharArray = function (a) {\n  return a instanceof\n  Uint16Array && a.$type$ ===\n  \"CharArray\";\n}\n\nKotlin.isIntArray = function (a) {\n  return a instanceof\n  Int32Array;\n}\n\nKotlin.isFloatArray = function (a) {\n  return a instanceof\n  Float32Array;\n}\n\nKotlin.isDoubleArray = function (a) {\n  return a instanceof\n  Float64Array;\n}\n\nKotlin.isLongArray = function (a) {\n  return Array.isArray(a) && a.$type$ ===\n  \"LongArray\";\n}\n\nKotlin.isArray = function (a) {\n  return Array.isArray(a) &&\n  !a.$type$;\n}\n\nKotlin.isArrayish = function (a) {\n  return Array.isArray(a) ||\n  ArrayBuffer.isView(a);\n}\n\nKotlin.arrayToString = function (a) {\n  if (a === null) return \"null\";\n  var\n  toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n  return \"[\" +\n  Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") +\n  \"]\";\n}\n\nKotlin.arrayDeepToString =\n  function (arr) {\n  return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n}\n\nKotlin.arrayEquals =\n  function (a, b) {\n  if (a === b) {\n    return true;\n  }\n  if (a === null || b === null || !Kotlin.isArrayish(b) ||\n  a.length !== b.length) {\n    return false;\n  }\n  for (var i = 0, n = a.length; i < n; i++) {\n    if\n  (!Kotlin.equals(a[i], b[i])) {\n    return false;\n  }\n  }\n  return true;\n}\n\nKotlin.arrayDeepEquals =\n  function (a, b) {\n  return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n}\n\nKotlin.arrayHashCode =\n  function (arr) {\n  if (arr === null) return 0;\n  var result = 1;\n  for (var i = 0, n = arr.length; i < n; i++) {\n    result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n  }\n  return result;\n}\n\nKotlin.arrayDeepHashCode =
```

```

function (arr) {\n  return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo);\n};\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n
getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction
getPropertyRefClass(obj, setter, cache) {\n  obj.$metadata$ = getPropertyRefMetadata(typeof setter ===
\"function\" ? cache.mutable : cache.immutable);\n  obj.constructor = obj;\n  return obj;\n}\n\nvar
propertyRefClassMetadataCache = [\n  {\n    mutable: { value: null, implementedInterface: function () {\n
return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n    immutable: { value: null, implementedInterface:
function () {\n      return Kotlin.kotlin.reflect.KProperty0 }\n    }\n  },\n  {\n    mutable: { value: null,
implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n
immutable: { value: null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KProperty1 }\n
    }\n  }\n];\n\nfunction getPropertyRefMetadata(cache) {\n  if (cache.value === null) {\n    cache.value = {\n
interfaces: [cache.implementedInterface()],\n
    baseClass: null,\n    functions: {},\n    properties: {},\n    types: {},\n    staticMembers:
{} }\n  };\n  return cache.value;\n}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n  return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n  return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n  return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function
(a) {\n  return Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n  if (a > 2147483647) return
2147483647;\n  if (a < -2147483648) return -2147483648;\n  return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n  if (a == null) return a;\n  if (a instanceof Kotlin.BoxedChar) return a;\n  return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n  if (a == null) return a;\n  return
Kotlin.toChar(a);\n};\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null) {\n    return obj2 ==
null;\n  }\n\n  if (obj2 == null) {\n    return false;\n  }\n\n  if (obj1 !== obj2) {\n    return obj2 !== obj2;\n  }\n\n  if (typeof obj1 === \"object\" && typeof
obj1.equals === \"function\") {\n    return obj1.equals(obj2);\n  }\n\n  if (typeof obj1 === \"number\" &&
typeof obj2 === \"number\") {\n    return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2);\n  }\n\n  return
obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n  if (obj == null) {\n    return 0;\n  }\n  var objType
= typeof obj;\n  if (\"object\" === objType) {\n    return \"function\" === typeof obj.hashCode ? obj.hashCode() :
getObjectHashCode(obj);\n  }\n  if (\"function\" === objType) {\n    return getObjectHashCode(obj);\n  }\n  if (\"number\" === objType) {\n    return Kotlin.numberHashCode(obj);\n  }\n  if (\"boolean\" === objType)
{\n    return Number(obj);\n  }\n\n  var str = String(obj);\n  return
getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n  if (o
== null) {\n    return \"null\";\n  }\n  else if (Kotlin.isArrayish(o)) {\n    return \"[...]\";\n  }\n  else {\n
return o.toString();\n  }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to
Symbol type once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME =

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"hashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n  if
(!OBJECT_HASH_CODE_PROPERTY_NAME in obj) {\n    var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit signed integer.\n    Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {
value: hash, enumerable: false });\n  }\n  return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n  var hash = 0;\n
for (var i = 0; i < str.length; i++) {\n    var code = str.charCodeAt(i);\n    hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n  }\n  return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n"/**\n * Copyright 2010-
2018

```

JetBrains s.r.o. and Kotlin Programming Language contributors. \n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \* \n // Copyright 2009 The Closure Library Authors. All Rights Reserved.\n // Licensed under the Apache License, Version 2.0 (the "License");\n // you may not use this file except in compliance with the License.\n // You may obtain a copy of the License at\n // http://www.apache.org/licenses/LICENSE-2.0\n // Unless required by applicable law or agreed to in writing, software\n // distributed under the License is distributed on an "AS-IS" BASIS,\n // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n // \n \* Constructs a 64-bit two's-complement integer, given its low and high 32-bit\n \* values as \*signed\* integers. See the from\* functions below for more\n \* convenient ways of constructing Longs.\n \* \n \* The internal representation of a long is the two given signed, 32-bit values.\n \* We use 32-bit pieces because these are the size of integers on which\n \* Javascript performs bit-operations. For operations like addition and\n \* multiplication, we split each number into 16-bit pieces, which can easily be\n \* multiplied within Javascript's floating-point representation without overflow\n \* or change in sign.\n \* \n \* In the algorithms below, we frequently reduce the negative case to the\n \* positive case by negating the input(s) and then post-processing the result.\n \* Note that we must ALWAYS check specially whether those values are MIN\_VALUE\n \* (-2^63) because -MIN\_VALUE == MIN\_VALUE (since 2^63 cannot be represented as\n \* a positive number, it overflows back into a negative). Not handling this\n \* case would often result in infinite recursion.\n \* \n \* @param {number} low The low (signed) 32 bits of the long.\n \* @param {number} high The high (signed) 32 bits of the long.\n \* @constructor\n \* @final\n \* \n Kotlin.Long = function(low, high) {\n /\*\*\n \* @type {number}\n \* @private\n \* \n this.low\_ = low | 0; // force into 32 signed bits.\n \*\n \* @type {number}\n \* @private\n \* \n this.high\_ = high | 0; // force into 32 signed bits.\n };\n\nKotlin.Long.\$metadata\$ = {\n kind: "class",\n simpleName: "Long",\n interfaces: []\n};\n\n// NOTE: Common constant values ZERO, ONE, NEG\_ONE, etc. are defined below the\n // from\* methods on which they depend.\n\n/\*\*\n \* A cache of the Long representations of small integer values.\n \* @type {!Object}\n \* @private\n \* \n Kotlin.Long.IntCache\_ = {};\n\n/\*\*\n \* Returns a Long representing the given (32-bit) integer value.\n \* @param {number} value The 32-bit integer in question.\n \* @return {!Kotlin.Long} The corresponding Long value.\n \* \n Kotlin.Long.fromInt = function(value) {\n if (-128 <= value && value < 128) {\n var cachedObj = Kotlin.Long.IntCache\_[value];\n if (cachedObj) {\n return cachedObj;\n }\n }\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-128 <= value && value < 128) {\n Kotlin.Long.IntCache\_[value] = obj;\n }\n return obj;\n};\n\n/\*\*\n \* Converts this number value to `Long`. \n \* The fractional part, if any, is rounded down towards zero.\n \* Returns zero if this `Double` value is `NaN`, `Long.MIN\_VALUE` if it's less than `Long.MIN\_VALUE`, \n \* `Long.MAX\_VALUE` if it's bigger than `Long.MAX\_VALUE`. \n \* @param {number} value The number in question.\n \* @return {!Kotlin.Long} The corresponding Long value.\n \* \n Kotlin.Long.fromNumber = function(value) {\n if (isNaN(value)) {\n return Kotlin.Long.ZERO;\n } else if (value <= -Kotlin.Long.TWO\_PWR\_63\_DBL\_) {\n return Kotlin.Long.MIN\_VALUE;\n } else if (value + 1 >= Kotlin.Long.TWO\_PWR\_63\_DBL\_) {\n return Kotlin.Long.MAX\_VALUE;\n } else if (value < 0) {\n return Kotlin.Long.fromNumber(-value).negate();\n } else {\n return new Kotlin.Long(\n (value % Kotlin.Long.TWO\_PWR\_32\_DBL\_) | 0,\n (value / Kotlin.Long.TWO\_PWR\_32\_DBL\_) | 0);\n }\n};\n\n/\*\*\n \* Returns a Long representing the 64-bit integer that comes by concatenating\n \* the given high and low bits. Each is assumed to use 32 bits.\n \* @param {number} lowBits The low 32-bits.\n \* @param

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{number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n
*\nKotlin.Long.fromBits = function(lowBits, highBits) {\n return new Kotlin.Long(lowBits,
highBits);\n};\n\n\n/**\n * Returns a Long representation of the given string, written using the given\n * radix.\n * @param {string} str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which
the text is written.\n * @return {!Kotlin.Long} The corresponding Long value.\n *\nKotlin.Long.fromString =
function(str, opt_radix) {\n if (str.length == 0) {\n throw Error('number format error: empty string');\n }\n\n var
radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n
}\n\n if (str.charAt(0) == '-') {\n return Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if
(str.indexOf('-') >= 0) {\n throw Error('number format error: interior \"-\" character: ' + str);\n }\n\n // Do several
(8) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var
radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n var result = Kotlin.Long.ZERO;\n for (var i =
0; i < str.length; i += 8) {\n var size = Math.min(8, str.length - i);\n var value = parseInt(str.substring(i, i + size),
radix);\n if (size < 8) {\n var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n result =
result.multiply(radixToPower);\n result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and
then remove\n// these variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated
below in calculations. This must appear before the\n * first call to any from* function below.\n * @type
{number}\n * @private\n *\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n *
@private\n *\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type
{number}\n * @private\n *\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_
/ 2;\n\n\n/**\n * @type {!Kotlin.Long} *\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/**\n * @type
{!Kotlin.Long} *\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/**\n * @type {!Kotlin.Long}
*\nKotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);\n\n\n/**\n * @type {!Kotlin.Long}
*\nKotlin.Long.MAX_VALUE =\n Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/**\n * @type
{!Kotlin.Long} *\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type
{!Kotlin.Long}\n * @private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n/**
@return {number} The value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt = function() {\n
return this.low_;\n};\n\n\n/**\n * @return {number} The closest floating-point representation to this value.
*\nKotlin.Long.prototype.toNumber = function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n\n/**\n * @return {number} The 32-bit hashCode
of this value. *\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n\n/**
@param {number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual
representation of this value.\n * @override\n *\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix
= opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if
(this.isZero()) {\n return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE))
{\n // We need to change the Long value before it can be negated, so we remove\n // the bottom-most digit in
this base and then recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div =
this.div(radixLong);\n var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) +
rem.toInt().toString(radix);\n } else {\n return '-' + this.negate().toString(radix);\n }

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    }
} // Do several (5) digits each time through the loop, so as to minimize the calls to the very
expensive emulated div.
var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 5));
var rem = this;
var result = "";
while (true) {
    var remDiv = rem.div(radixToPower);
    var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();
    var digits = intval.toString(radix);
    rem = remDiv;
    if (rem.isZero()) {
        return digits + result;
    } else {
        while (digits.length < 5) {
            digits = '0' + digits;
        }
        result = "" + digits + result;
    }
}
}

/** @return {number} The high 32-bits as a signed value.
*/
Kotlin.Long.prototype.getHighBits = function() {
    return this.high_;
};

/** @return {number} The low 32-bits as a signed value.
*/
Kotlin.Long.prototype.getLowBits = function() {
    return this.low_;
};

/** @return {number} The low 32-bits as an unsigned value.
*/
Kotlin.Long.prototype.getLowBitsUnsigned = function() {
    return (this.low_ >= 0) ? this.low_ :
Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;
};

/** @return {number} Returns the number of bits needed to represent the absolute
value of this Long.
*/
Kotlin.Long.prototype.getNumBitsAbs = function() {
    if (this.isNegative()) {
        if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
            return 64;
        } else {
            return this.negate().getNumBitsAbs();
        }
    } else {
        var val = this.high_ != 0 ? this.high_ : this.low_;
        for (var bit = 31; bit > 0; bit--) {
            if ((val & (1 << bit)) != 0) {
                break;
            }
        }
        return this.high_ != 0 ? bit + 33 : bit + 1;
    }
};

/** @return {boolean} Whether this value is zero.
*/
Kotlin.Long.prototype.isZero = function() {
    return this.high_ == 0 && this.low_ == 0;
};

/** @return {boolean} Whether this value is negative.
*/
Kotlin.Long.prototype.isNegative = function() {
    return this.high_ < 0;
};

/** @return {boolean} Whether this value is odd.
*/
Kotlin.Long.prototype.isOdd = function() {
    return (this.low_ & 1) == 1;
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.equalsLong = function(other) {
    return (this.high_ == other.high_) && (this.low_ == other.low_);
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.notEqualsLong = function(other) {
    return (this.high_ != other.high_) || (this.low_ != other.low_);
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.lessThan = function(other) {
    return this.compare(other) < 0;
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.lessThanOrEqual = function(other) {
    return this.compare(other) <= 0;
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.greaterThan = function(other) {
    return this.compare(other) > 0;
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.greaterThanOrEqual = function(other) {
    return this.compare(other) >= 0;
};

/** @param {Kotlin.Long} other Long to compare against.
*/
Kotlin.Long.prototype.compare = function(other) {
    if (this.equalsLong(other)) {
        return 0;
    }
    var thisNeg = this.isNegative();
    var otherNeg = other.isNegative();
    if (thisNeg && !otherNeg) {
        return -1;
    }
    if (!thisNeg && otherNeg) {
        return 1;
    }
    // at this point, the signs are the same, so subtraction will not overflow
    if (this.subtract(other).isNegative()) {
        return -1;
    } else {
        return 1;
    }
};

/** @return {!Kotlin.Long} The negation of this value.
*/
Kotlin.Long.prototype.negate = function() {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
        return Kotlin.Long.MIN_VALUE;
    } else {
        return this.not().add(Kotlin.Long.ONE);
    }
};

/** @param {Kotlin.Long} other Long to add to this one.
*/
Kotlin.Long.prototype.add = function(other) {
    // Divide each number into 4 chunks of 16 bits, and then sum the chunks.
    var a48 = this.high_ >>> 16;
    var a32 = this.high_ & 0xFFFF;
    var a16 = this.low_ >>> 16;
    var a00 = this.low_

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& 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>>
16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 +=
c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 +
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns the difference of this and the
given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The
difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n return
this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long}
other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply
= function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else if (other.isZero()) {\n return
Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return other.isOdd() ?
Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if
(other.isNegative()) {\n return this.negate().multiply(other.negate());\n } else {\n return
this.negate().multiply(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float multiplication\n if
(this.lessThan(Kotlin.Long.TWO_PWR_24_) && other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return
Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16
bits, and then add up 4x4 products.\n // We
can skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var
a16 = this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 =
other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 =
0, c16 = 0, c00 = 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 +=
c16 >>> 16;\n c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 *
b00;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n
c32 += a00 * b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 *
b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n\n/**\n *
Returns this Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long}
This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n if (other.isZero()) {\n
throw Error('division by zero');\n } else if (this.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n
} else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if
(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :
Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n
}\n }\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if
(this.isNegative()) {\n if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n
return this.negate().div(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n //

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smaller than the actual value.\n    var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n
    // We will tweak the approximate result by changing it in the 48-th digit or\n    // the smallest non-fractional digit,
whichever is larger.\n    var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n    var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n    // Decrease the approximation until it is smaller than the remainder. Note\n    // that if
it is too large, the product overflows and is negative.\n    var approxRes = Kotlin.Long.fromNumber(approx);\n
var approxRem = approxRes.multiply(other);\n    while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n    approx -= delta;\n    approxRes = Kotlin.Long.fromNumber(approx);\n    approxRem =
approxRes.multiply(other);\n    }\n    // We know the answer can't be zero... and actually, zero would cause\n    //
infinite recursion since we would make no progress.\n    if (approxRes.isZero()) {\n    approxRes =
Kotlin.Long.ONE;\n    }\n    res = res.add(approxRes);\n    rem = rem.subtract(approxRem);\n
    }\n    return res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long
by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n
*/\nKotlin.Long.prototype.modulo = function(other) {\n    return
this.subtract(this.div(other).multiply(other));\n};\n\n\n/**\n * @return {!Kotlin.Long} The bitwise-NOT of this value.
*/\nKotlin.Long.prototype.not = function() {\n    return Kotlin.Long.fromBits(~this.low_, ~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which
to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and =
function(other) {\n    return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ &
other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to OR.\n * @return {!Kotlin.Long}
The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n    return
Kotlin.Long.fromBits(this.low_ | other.low_,\n
this.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to
XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor =
function(other) {\n    return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n
this.high_ ^
other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param
{number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the
given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n    numBits &= 63;\n    if (numBits == 0)
{\n    return this;\n    } else {\n    var low = this.low_;\n    if (numBits < 32) {\n    var high
= this.high_;\n    return Kotlin.Long.fromBits(\n        low << numBits,\n        (high << numBits) | (low >>> (32 -
numBits));\n    } else {\n    return Kotlin.Long.fromBits(0, low << (numBits - 32));\n    }\n    }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of
bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n
*/\nKotlin.Long.prototype.shiftRight = function(numBits) {\n    numBits &= 63;\n    if (numBits == 0) {\n    return
this;\n    } else {\n    var high = this.high_;\n    if (numBits < 32) {\n    var low = this.low_;\n    return
Kotlin.Long.fromBits(\n        (low >>> numBits) | (high << (32 - numBits)),\n        high >> numBits);\n    } else
{\n    return Kotlin.Long.fromBits(\n        high >> (numBits - 32),\n        high >= 0 ? 0 : -1);\n    }\n    }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount,
with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to
shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n * zeros placed into the
new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n    numBits &= 63;\n    if
(numBits == 0) {\n    return this;\n    } else {\n    var high = this.high_;\n    if (numBits < 32) {\n    var low =
this.low_;\n    return Kotlin.Long.fromBits(\n        (low >>> numBits) | (high << (32 - numBits)),\n        high
>>> numBits);\n    } else if (numBits == 32) {\n    return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n    } else {\n    return
Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n    }\n    }\n};\n\n\n// Support for
Kotlin\nKotlin.Long.prototype.equals = function (other) {\n    return other instanceof Kotlin.Long &&
this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc

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= function() {\n  return this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n  return
this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n  return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n  return
this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\n\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n  return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n * @param {string} id\n * @param {Object} declaration\n\n
*/\n\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n
return fun;\n};\n\nKotlin.wrapFunction = function(fun)
{\n  var f = function() {\n    f = fun();\n    return f.apply(this, arguments);\n  }; \n  return function() {\n
return f.apply(this, arguments);\n  }; \n};\n\nKotlin.isTypeOf = function(type) {\n  return function (object) {\n
return typeof object === type;\n  } \n};\n\nKotlin.isInstanceOf = function (klass) {\n  return function (object) {\n
return Kotlin.isType(object, klass);\n  } \n};\n\nKotlin.orNull = function (fn) {\n  return function (object) {\n
return object == null || fn(object);\n  } \n};\n\nKotlin.andPredicate = function (a, b) {\n  return function (object)
{\n  return a(object) && b(object);\n  } \n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion,
moduleName, data) {\n};\n\nKotlin.suspendCall = function(value) {\n  return value;\n};\n\nKotlin.coroutineResult
= function(qualifier) {\n  throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver
= function(qualifier) {\n  throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n  throw new Error(\n    \"This marker function
should never be called. \" +\n    \"Looks like compiler did not eliminate it properly. \" +\n    \"Please, report
an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n  return
function() {\n    return defaultValue;\n  } \n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n  var typeA = typeof a;\n  if
(typeA === \"number\") {\n    if (typeof b === \"number\") {\n
return Kotlin.doubleCompareTo(a, b);\n    } \n    return Kotlin.primitiveCompareTo(a, b);\n  } \n  if
(typeA === \"string\" || typeA === \"boolean\") {\n    return Kotlin.primitiveCompareTo(a, b);\n  } \n  return
a.compareTo_1 1rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n  return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n  if (a < b) return -1;\n  if (a > b) return 1;\n\n  if (a ===
b) {\n    if (a !== 0) return 0;\n\n    var ia = 1 / a;\n    return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n  } \n\n
return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n  return
Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n  return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n  return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n
var buf = new ArrayBuffer(8);\n  var bufFloat64 = new Float64Array(buf);\n  var bufFloat32 = new
Float32Array(buf);\n  var bufInt32 = new Int32Array(buf);\n  var lowIndex = 0;\n  var highIndex = 1;\n\n  bufFloat64[0] = -1; // bff00000_00000000\n  if (bufInt32[lowIndex] !== 0) {\n    lowIndex = 1;\n    highIndex
= 0;\n  } \n\n  Kotlin.doubleToBits = function(value) {\n    return Kotlin.doubleToRawBits(isNaN(value) ? NaN
: value);\n  }; \n\n  Kotlin.doubleToRawBits = function(value) {\n    bufFloat64[0] = value;\n    return
Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n  }; \n\n  Kotlin.doubleFromBits =
function(value) {\n    bufInt32[lowIndex] = value.low_;\n    bufInt32[highIndex] = value.high_;\n    return
bufFloat64[0];\n  }; \n\n  Kotlin.floatToBits = function(value) {\n    return Kotlin.floatToRawBits(isNaN(value)
? NaN : value);\n  }; \n\n  Kotlin.floatToRawBits = function(value) {\n    bufFloat32[0]
= value;\n    return bufInt32[0];\n  }; \n\n  Kotlin.floatFromBits = function(value) {\n    bufInt32[0] =
value;\n    return bufFloat32[0];\n  }; \n\n  // returns zero value for number with positive sign bit and non-zero

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value for number with negative sign bit.\n Kotlin.doubleSignBit = function(value) {\n    bufFloat64[0] =
value;\n    return bufInt32[highIndex] & 0x80000000;\n    };\n    Kotlin.numberHashCode = function(obj) {\n
if ((obj | 0) === obj) {\n    return obj | 0;\n    } else {\n    bufFloat64[0] = obj;\n    return
(bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\n    };\n    };\n    Kotlin.ensureNotNull = function(x)
{\n    return x != null ? x : Kotlin.throwNPE();\n    };*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\nif (typeof String.prototype.startsWith === "undefined") {\n    Object.defineProperty(String.prototype,
\'startsWith\', {\n        value: function (searchString, position) {\n            position = position || 0;\n            return
this.lastIndexOf(searchString, position) === position;\n        };\n    });\n}\n\nif (typeof String.prototype.endsWith ===
\'undefined\') {\n    Object.defineProperty(String.prototype, \'endsWith\', {\n        value: function (searchString,
position) {\n            var subjectString = this.toString();\n            if (position === undefined || position >
subjectString.length) {\n                position = subjectString.length;\n            }\n            position -=
searchString.length;\n            var lastIndex = subjectString.indexOf(searchString, position);\n            return lastIndex
!== -1 && lastIndex === position;\n        };\n    });\n}\n\n// ES6 Math polyfills\n\nif (typeof Math.sign ===
\'undefined\') {\n    Math.sign = function(x) {\n
x = +x; // convert to a number\n    if (x === 0 || isNaN(x)) {\n        return Number(x);\n    }\n    return x >
0 ? 1 : -1;\n    };\n}\n\nif (typeof Math.trunc === "undefined") {\n    Math.trunc = function(x) {\n    if (isNaN(x))
{\n        return NaN;\n    }\n    if (x > 0) {\n        return Math.floor(x);\n    }\n    return Math.ceil(x);\n
};\n}\n\n(function() {\n    var epsilon = 2.220446049250313E-16;\n    var taylor_2_bound = Math.sqrt(epsilon);\n    var
taylor_n_bound = Math.sqrt(taylor_2_bound);\n    var upper_taylor_2_bound = 1/taylor_2_bound;\n    var
upper_taylor_n_bound = 1/taylor_n_bound;\n\n    if (typeof Math.sinh === "undefined") {\n        Math.sinh =
function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n                if (Math.abs(x) >
taylor_2_bound) {\n                    result += (x * x * x) / 6;\n                }\n                return result;\n            }
else {\n                var y = Math.exp(x);\n                var y1 = 1 / y;\n                if (!isFinite(y)) return Math.exp(x -
Math.LN2);\n                if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n                return (y - y1) / 2;\n            }
};\n    }\n    if (typeof Math.cosh === "undefined") {\n        Math.cosh = function(x) {\n            var y =
Math.exp(x);\n            var y1 = 1 / y;\n            if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) -
Math.LN2);\n            return (y + y1) / 2;\n        };\n    }\n\n    if (typeof Math.tanh === "undefined") {\n
Math.tanh = function(x) {\n        if (Math.abs(x) < taylor_n_bound) {\n            var result = x;\n            if
(Math.abs(x) > taylor_2_bound) {\n                result -= (x * x * x) / 3;\n            }\n            return result;\n        }
else {\n            var a = Math.exp(+x), b = Math.exp(-x);\n            return a ===
Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n        };\n    };\n}\n\n // Inverse hyperbolic function
implementations derived from boost special math functions,\n // Copyright Eric Ford & Hubert Holin 2001.\n\nif (typeof Math.asinh === "undefined") {\n    var asinh = function(x) {\n        if (x >= +taylor_n_bound)\n        {\n            if (x > upper_taylor_n_bound)\n                {\n                    if (x > upper_taylor_2_bound)\n                }\n                // approximation by laurent series in 1/x at 0+ order from -1 to 0\n                return
Math.log(x) + Math.LN2;\n            }\n        }\n        else\n            {\n                // approximation by
laurent series in 1/x at 0+ order from -1 to 1\n                return Math.log(x * 2 + (1 / (x * 2)));\n            }\n    }
}\n    else\n        {\n            return
Math.log(x + Math.sqrt(x * x + 1));\n        }\n    }\n    else if (x <= -taylor_n_bound)\n        {\n
return -asinh(-x);\n    }\n    else\n        {\n            // approximation by taylor series in x at 0 up to
order 2\n            var result = x;\n            if (Math.abs(x) >= taylor_2_bound)\n                {\n                    var x3 =
x * x * x;\n                    // approximation by taylor series in x at 0 up to order 4\n                    result -= x3 / 6;\n                }
\n            return result;\n        };\n    };\n    Math.asinh = asinh;\n}\n\nif (typeof Math.acosh ===
\'undefined\') {\n    Math.acosh = function(x) {\n        if (x < 1)\n            {\n                return NaN;\n            }\n        else if (x - 1 >= taylor_n_bound)\n            {\n
if (x > upper_taylor_2_bound)\n                {\n                    // approximation

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by laurent series in 1/x at 0+ order from -1 to 0\n          return Math.log(x) + Math.LN2;\n          }\n
else\n          {\n          return Math.log(x + Math.sqrt(x * x - 1));\n          }\n          else\n
{\n          var y = Math.sqrt(x - 1);\n          // approximation by taylor series in y at 0 up to order 2\n
var result = y;\n          if (y >= taylor_2_bound)\n          {\n          var y3 = y * y * y;\n          //
approximation by taylor series in y at 0 up to order 4\n          result -= y3 / 12;\n          }\n          return
Math.sqrt(2) * result;\n          }\n          };\n          if (typeof Math.atanh === \"undefined\") {\n          Math.atanh =
function(x) {\n          if (Math.abs(x) < taylor_n_bound) {\n          var result = x;\n          if (Math.abs(x) >
taylor_2_bound) {\n
          result += (x * x * x) / 3;\n          }\n          return result;\n          }\n          return Math.log((1 + x) / (1 -
x)) / 2;\n          };\n          }\n          if (typeof Math.log1p === \"undefined\") {\n          Math.log1p = function(x) {\n          if
(Math.abs(x) < taylor_n_bound) {\n          var x2 = x * x;\n          var x3 = x2 * x;\n          var x4 = x3 *
x;\n          // approximation by taylor series in x at 0 up to order 4\n          return (-x4 / 4 + x3 / 3 - x2 / 2 +
x);\n          }\n          return Math.log(x + 1);\n          };\n          }\n          if (typeof Math.expm1 === \"undefined\") {\n
Math.expm1 = function(x) {\n          if (Math.abs(x) < taylor_n_bound) {\n          var x2 = x * x;\n          var
x3 = x2 * x;\n          var x4 = x3 * x;\n          // approximation by taylor series in x at 0 up to order 4\n
return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n          }\n          return Math.exp(x) - 1;\n          };\n          };\n          })\n          if (typeof Math.hypot === \"undefined\") {\n          Math.hypot =
function() {\n          var y = 0;\n          var length = arguments.length;\n          for (var i = 0; i < length; i++) {\n
if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n          return Infinity;\n          }\n          y +=
arguments[i] * arguments[i];\n          }\n          return Math.sqrt(y);\n          };\n          }\n          if (typeof Math.log10 === \"undefined\") {\n
Math.log10 = function(x) {\n          return Math.log(x) * Math.LOG10E;\n          };\n          }\n          if (typeof Math.log2 ===
\"undefined\") {\n          Math.log2 = function(x) {\n          return Math.log(x) * Math.LOG2E;\n          };\n          }\n          if (typeof
Math.clz32 === \"undefined\") {\n          Math.clz32 = (function(log, LN2) {\n          return function(x) {\n          var
asUint = x >>> 0;\n          if (asUint === 0) {\n          return 32;\n          }\n          return 31 - (log(asUint) /
LN2 | 0) | 0; // the
\"| 0\" acts like math.floor\n          };\n          })(Math.log, Math.LN2);\n          }\n          }\n          // For HtmlUnit and PhantomJs\n          if (typeof
ArrayBuffer.isView === \"undefined\") {\n          ArrayBuffer.isView = function(a) {\n          return a != null &&
a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n          };\n          }\n          if (typeof
Array.prototype.fill === \"undefined\") {\n          // Polyfill from https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n
Object.defineProperty(Array.prototype, 'fill', {\n          value: function (value) {\n          // Steps 1-2.\n          if (this == null) {\n          throw new
TypeError('this is null or not defined');\n          }\n          var O = Object(this);\n          // Steps 3-5.\n          var len = O.length >>> 0;\n          // Steps 6-7.\n          var start = arguments[1];\n          var relativeStart = start
>> 0;\n          // Step 8.\n          var k = relativeStart
< 0 ?\n          Math.max(len + relativeStart, 0) :\n          Math.min(relativeStart, len);\n          // Steps
9-10.\n          var end = arguments[2];\n          var relativeEnd = end === undefined ?\n          len : end
>> 0;\n          // Step 11.\n          var finalValue = relativeEnd < 0 ?\n          Math.max(len +
relativeEnd, 0) :\n          Math.min(relativeEnd, len);\n          // Step 12.\n          while (k <
finalValue) {\n          O[k] = value;\n          k++;\n          }\n          // Step 13.\n          return O;\n          };\n          });\n          }\n          function normalizeOffset(offset, length) {\n          if (offset < 0) return Math.max(0, offset
+ length);\n          return Math.min(offset, length);\n          }\n          function typedArraySlice(begin, end) {\n          if (typeof
end === \"undefined\") {\n          end = this.length;\n          }\n          begin = normalizeOffset(begin || 0, this.length);\n          end = Math.max(begin, normalizeOffset(end,
this.length));\n          return new this.constructor(this.subarray(begin, end));\n          }\n          }\n          var arrays = [Int8Array,
Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n          for (var i = 0; i < arrays.length; ++i) {\n          var TypedArray = arrays[i];\n          if (typeof TypedArray.prototype.fill === \"undefined\") {\n
Object.defineProperty(TypedArray.prototype, 'fill', {\n          value: Array.prototype.fill\n          });\n          }\n          if (typeof TypedArray.prototype.slice === \"undefined\") {\n
Object.defineProperty(TypedArray.prototype,

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'slice', {\n          value: typedArraySlice\n          });\n      }\n }\n\n // Patch apply to work with TypedArrays
if needed.\n try {\n     (function() {} ).apply(null, new Int32Array(0))\n } catch (e) {\n     var apply =
Function.prototype.apply;\n     Object.defineProperty(Function.prototype,
'apply', {\n          value: function(self, array) {\n              return apply.call(this, self, [].slice.call(array));\n          }\n      });\n }\n\n\n // Patch map to work with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i)
{\n     var TypedArray = arrays[i];\n     if (typeof TypedArray.prototype.map === \"undefined\") {\n
Object.defineProperty(TypedArray.prototype, 'map', {\n          value: function(callback, self) {\n
return [].slice.call(this).map(callback, self);\n          }\n      });\n }\n }\n\n // Patch sort to work with
TypedArrays if needed.\n // TODO: consider to remove following function and replace it with
`Kotlin.doubleCompareTo` (see misc.js)\n var totalOrderComparator = function (a, b) {\n     if (a < b) return -
1;\n     if (a > b) return 1;\n     if (a === b) {\n         if (a !== 0) return 0;\n
        var ia = 1 / a;\n         return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n     }\n     return a !== a ? (b !== b ? 0 : 1) :
-1\n };

for (var i = 0; i < arrays.length; ++i) {\n     var TypedArray = arrays[i];\n     if (typeof
TypedArray.prototype.sort === \"undefined\") {\n         Object.defineProperty(TypedArray.prototype, 'sort', {\n
          value: function(compareFunction) {\n              return Array.prototype.sort.call(this, compareFunction ||
totalOrderComparator);\n          }\n      });\n }\n }\n\n\nKotlin.Kind = {\n     CLASS: \"class\", \n
INTERFACE: \"interface\", \n     OBJECT: \"object\", \n\nKotlin.callGetter = function (thisObject, klass,
propertyName) {\n     var propertyDescriptor =
Object.getOwnPropertyDescriptor(klass, propertyName);\n     if (propertyDescriptor != null &&
propertyDescriptor.get != null) {\n         return propertyDescriptor.get.call(thisObject);\n     }\n     propertyDescriptor
= Object.getOwnPropertyDescriptor(thisObject, propertyName);\n     if (propertyDescriptor != null && \"value\" in
propertyDescriptor) {\n         return thisObject[propertyName];\n     }\n     return Kotlin.callGetter(thisObject,
Object.getPrototypeOf(klass), propertyName);\n\n\nKotlin.callSetter = function (thisObject, klass, propertyName,
value) {\n     var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n     if
(propertyDescriptor != null && propertyDescriptor.set != null) {\n         propertyDescriptor.set.call(thisObject,
value);\n         return;\n     }\n     propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject,
propertyName);\n     if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n
thisObject[propertyName]
= value;\n         return\n     }\n     Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName,
value);\n\n\nfunction isInheritanceFromInterface(ctor, iface) {\n     if (ctor === iface) return true;\n     var
metadata = ctor.$metadata$;\n     if (metadata != null) {\n         var interfaces = metadata.interfaces;\n         for (var i =
0; i < interfaces.length; i++) {\n             if (isInheritanceFromInterface(interfaces[i], iface)) {\n                 return
true;\n             }\n         }\n     }\n     var superPrototype = ctor.prototype != null ?
Object.getPrototypeOf(ctor.prototype) : null;\n     var superConstructor = superPrototype != null ?
superPrototype.constructor : null;\n     return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);\n\n\n/**\n * \n * @param {*} object\n * @param
{Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n     if (klass ===
Object) {\n         switch (typeof object)
{\n             case \"string\":\n             case \"number\":\n             case \"boolean\":\n             case \"function\":\n
return true;\n             default:\n                 return object instanceof Object;\n         }\n     }\n     if (object == null || klass
== null || (typeof object !== 'object' && typeof object !== 'function')) {\n         return false;\n     }\n     if (typeof
klass === \"function\" && object instanceof klass) {\n         return true;\n     }\n     var proto =
Object.getPrototypeOf(klass);\n     var constructor = proto != null ? proto.constructor : null;\n     if (constructor != null
&& \"$metadata$\" in constructor) {\n         var metadata = constructor.$metadata$;\n         if (metadata.kind ===
Kotlin.Kind.OBJECT) {\n             return object === klass;\n         }\n     }\n     var klassMetadata =
klass.$metadata$;\n     // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\",

```

nevertheless they can be used in RHS

```
of instanceof\n if (klassMetadata == null) {\n    return object instanceof klass;\n }\n\n if\n(klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n    return\nisInheritanceFromInterface(object.constructor, klass);\n }\n\n return false;\n};\n\nKotlin.isNumber = function (a)\n{\n    return typeof a === \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n    return\nvalue instanceof Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n    var type = typeof value;\n\n    return type === \"string\" ||\n        type === \"boolean\" ||\n        Kotlin.isNumber(value) ||\n        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n    return\ntypeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};\n\n\"/*\n * Copyright 2010-2020\nJetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed\nby the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get\ndeclarations directly under the module\n\n@PublishedApi\ninternal fun <T> Array(size: Int):\nArray<T>\n\n@JsName(\"newArray\")\nfun <T> newArray(size: Int, initialValue: T) = fillArrayVal(Array<T>(size),\ninitialValue)\n\n@JsName(\"newArrayF\")\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) =\nfillArrayFun(Array<T>(size), init)\n\n@JsName(\"fillArray\")\ninline fun <T> fillArrayFun(array: Array<T>, init:\n(Int) -> T): Array<T> {\n    for (i in 0..array.size - 1) {\n        array[i] = init(i)\n    }\n    return\narray\n}\n\n@JsName(\"booleanArray\")\nfun booleanArray(size: Int, init: dynamic): Array<Boolean> {\n    val\nresult: dynamic = Array<Boolean>(size)\n    result.`$type$` = \"BooleanArray\"\n    return when (init) {\n        null,\ntrue -> fillArrayVal(result, false)\n        false -> result\n        else -> fillArrayFun<Boolean>(result, init)\n    }\n}\n\n@JsName(\"booleanArrayF\")\ninline\nfun booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size,\nfalse), init)\n\n@JsName(\"charArray\")\n@Suppress(\"UNUSED_PARAMETER\")\nfun charArray(size: Int, init:\ndynamic): Array<Char> {\n    val result = js(\"new Uint16Array(size)\")\n    result.`$type$` = \"CharArray\"\n    return when (init) {\n        null, true, false -> result // For consistency\n        else -> fillArrayFun<Char>(result,\ninit)\n    }\n}\n\n@JsName(\"charArrayF\")\ninline fun charArrayWithFun(size: Int, init: (Int) -> Char):\nArray<Char> {\n    val array = charArray(size, null)\n    for (i in 0..array.size - 1) {\n        @Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n    }\n    return array\n}\n\n@JsName(\"untypedCharArrayF\")\ninline fun untypedCharArrayWithFun(size: Int, init:\n(Int) -> Char): Array<Char> {\n    val array = Array<Char>(size)\n    for (i in\n0..array.size - 1) {\n        @Suppress(\"UNUSED_VARIABLE\") // used in js block\n        val value = init(i)\n        js(\"array[i] = value;\")\n    }\n    return array\n}\n\n@JsName(\"longArray\")\nfun longArray(size: Int, init:\ndynamic): Array<Long> {\n    val result: dynamic = Array<Long>(size)\n    result.`$type$` = \"LongArray\"\n    return when (init) {\n        null, true -> fillArrayVal(result, 0L)\n        false -> result\n        else ->\nfillArrayFun<Long>(result, init)\n    }\n}\n\n@JsName(\"longArrayF\")\ninline fun longArrayWithFun(size: Int,\ninit: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array:\nArray<T>, initialValue: T): Array<T> {\n    for (i in 0..array.size - 1) {\n        array[i] = initialValue\n    }\n    return\narray\n}\n\n\"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\nthis source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt\nfile.\n */\n\npackage kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n\n    @JsName(\"name$\") private var _name: String = \"\"\n    @JsName(\"ordinal$\") private var _ordinal: Int = 0\n\n    val name: String\n    get() = _name\n\n    val ordinal: Int\n    get() = _ordinal\n\n    override fun\ncompareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n    override fun equals(other: Any?) = this ===\nother\n\n    override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n\n    override fun toString() =\nname\n\n    companion object {\n\n        \"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\ncontributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt\nfile.\n */\n\npackage kotlin.js.internal\n\n@JsName(\"DoubleCompanionObject\")\ninternal\nobject DoubleCompanionObject {\n    @JsName(\"MIN_VALUE\")\n    const val MIN_VALUE: Double = 4.9E-324\n\n    @JsName(\"MAX_VALUE\")\n}
```

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const val MAX_VALUE: Double = 1.7976931348623157E308\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Double = 1.0 / 0.0\n
@JsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const val
NEGATIVE_INFINITY: Double = -1.0 / 0.0\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Double = -(0.0 / 0.0)\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 64\n}\n\n@JsName("FloatCompanionObject")\ninternal object FloatCompanionObject {\n
@JsName("MIN_VALUE")\n const val MIN_VALUE: Float = 1.4E-45F\n @JsName("MAX_VALUE")\n
const val MAX_VALUE: Float = 3.4028235E38F\n @JsName("POSITIVE_INFINITY")\n
@Suppress("DIVISION_BY_ZERO")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n
@JsName("NEGATIVE_INFINITY")\n @Suppress("DIVISION_BY_ZERO")\n const
val NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n @JsName("NaN")\n
@Suppress("DIVISION_BY_ZERO")\n const val NaN: Float = -(0.0F / 0.0F)\n
@JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n @JsName("SIZE_BITS")\n const val
SIZE_BITS = 32\n}\n\n@JsName("IntCompanionObject")\ninternal object IntCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Int = -2147483647 - 1\n @JsName("MAX_VALUE")\n
val MAX_VALUE: Int = 2147483647\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 4\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 32\n}\n\n@JsName("LongCompanionObject")\ninternal
object LongCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Long =
js("Kotlin.Long.MIN_VALUE")\n @JsName("MAX_VALUE")\n val MAX_VALUE: Long =
js("Kotlin.Long.MAX_VALUE")\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 8\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 64\n}\n\n@JsName("ShortCompanionObject")\ninternal
object ShortCompanionObject {\n @JsName("MIN_VALUE")\n val MIN_VALUE: Short = -32768\n
@JsName("MAX_VALUE")\n val MAX_VALUE: Short = 32767\n @JsName("SIZE_BYTES")\n const
val SIZE_BYTES = 2\n @JsName("SIZE_BITS")\n const val SIZE_BITS =
16\n}\n\n@JsName("ByteCompanionObject")\ninternal object ByteCompanionObject {\n
@JsName("MIN_VALUE")\n val MIN_VALUE: Byte = -128\n @JsName("MAX_VALUE")\n val
MAX_VALUE: Byte = 127\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 1\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 8\n}\n\n@JsName("CharCompanionObject")\ninternal
object CharCompanionObject {\n @JsName("MIN_VALUE")\n public const val MIN_VALUE: Char =
"\u0000"\n @JsName("MAX_VALUE")\n public const val MAX_VALUE: Char = "\uFFFF"\n
@JsName("MIN_HIGH_SURROGATE")\n public const val MIN_HIGH_SURROGATE: Char = "\uD800"\n
@JsName("MAX_HIGH_SURROGATE")\n
public const val MAX_HIGH_SURROGATE: Char = "\uDBFF"\n
@JsName("MIN_LOW_SURROGATE")\n public const val MIN_LOW_SURROGATE: Char = "\uDC00"\n
@JsName("MAX_LOW_SURROGATE")\n public const val MAX_LOW_SURROGATE: Char = "\uDFFF"\n
@JsName("MIN_SURROGATE")\n public const val MIN_SURROGATE: Char =
MIN_HIGH_SURROGATE\n @JsName("MAX_SURROGATE")\n public const val MAX_SURROGATE:
Char = MAX_LOW_SURROGATE\n @JsName("SIZE_BYTES")\n const val SIZE_BYTES = 2\n
@JsName("SIZE_BITS")\n const val SIZE_BITS = 16\n}\n\ninternal object StringCompanionObject
{\n}\n\ninternal object BooleanCompanionObject {\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n/\n\n// NOTE:
THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * *\n * If the

```



size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```

*\/@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T
{\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n  return
get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in
Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int
{\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n  return
get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic
inline operator fun FloatArray.component1(): Float {\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS
where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun
DoubleArray.component1(): Double {\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If
the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the
behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1():
Boolean {\n  return get(0)\n}\n\n**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is
less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1():
Char {\n  return get(0)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less
than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n  return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n  return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n  return
get(1)\n}\n\n**\n *
Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n  return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n  return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n  return
get(1)\n}\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this
array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is
unspecified.\n
*\/@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n

```

return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4():

Long {`\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n`  
`*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n return  
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return  
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n return  
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n return  
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n return  
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where  
the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5():  
Byte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less  
than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return  
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n return  
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an  
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic  
inline operator fun LongArray.component5(): Long {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from  
the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in  
Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun  
FloatArray.component5(): Float {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If  
the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the  
behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5():  
Double {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is  
less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5():  
Boolean {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is  
less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n  
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n return  
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n  
*\n@public operator fun  
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n return indexOf(element)  
>= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n  
*\n@public operator fun  
ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if  
[element] is found in the array.\n  
*\n@public operator fun  
ShortArray.contains(element: Short): Boolean {\n return  
indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n  
*\n@public operator fun  
IntArray.contains(element:  
Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n  
*\n@public operator fun  
LongArray.contains(element: Long): Boolean {\n return indexOf(element) >=`

`0` Returns `true` if [element] is found in the array. `@Deprecated`("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }")) `@DeprecatedSinceKotlin`(warningSince = "1.4", errorSince = "1.6", hiddenSince = "1.7") `public operator fun FloatArray.contains(element: Float): Boolean` { `return any { it == element }` } Returns `true` if [element] is found in the array. `@Deprecated`("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or 'asList().contains(element: T)' to get the same search behavior as in a list.", ReplaceWith("any { it == element }")) `@DeprecatedSinceKotlin`(warningSince = "1.4", errorSince = "1.6", hiddenSince = "1.7") `public operator fun DoubleArray.contains(element: Double): Boolean` { `return any { it == element }` } Returns `true` if [element] is found in the array. `public operator fun BooleanArray.contains(element: Boolean): Boolean` { `return indexOf(element) >= 0` } Returns `true` if [element] is found in the array. `public operator fun CharArray.contains(element: Char): Boolean` { `return indexOf(element) >= 0` } Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun <T> Array<out T>.elementAt(index: Int): T` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun ByteArray.elementAt(index: Int): Byte` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun ShortArray.elementAt(index: Int): Short` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun IntArray.elementAt(index: Int): Int` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun LongArray.elementAt(index: Int): Long` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun FloatArray.elementAt(index: Int): Float` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun DoubleArray.elementAt(index: Int): Double` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun BooleanArray.elementAt(index: Int): Boolean` Returns an element at the given [index] or throws an `[IndexOutOfBoundsException]` if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAt` `public expect fun CharArray.elementAt(index: Int): Char` Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAtOrElse` `@kotlin.internal.InlineOnly` `public inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T` { `return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)` } Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array. `@sample` `samples.collections.Collections.Elements.elementAtOrElse` `@kotlin.internal.InlineOnly` `public inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte` { `return if (index >= 0 && index <= lastIndex)`

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get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling
the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) ->
Boolean): Boolean {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index:
Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n    return
this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds
of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample

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samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index:
Int): Float? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char?
{\n  return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n  return
firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.find(predicate: (Int) -> Boolean): Int? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.find(predicate: (Long) -> Boolean): Long? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.find(predicate: (Float) -> Boolean): Float? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.find(predicate: (Char) -> Boolean): Char? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such
element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*^n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no

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such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double?
{\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean):
Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate],
or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if
the array is empty.\n * \n@public fun <T> Array<out T>.first(): T {\n if (isEmpty())\n throw
NoSuchElementException("Array
is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException
if the array is empty.\n * \n@public fun ByteArray.first(): Byte {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n@public fun ShortArray.first(): Short {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the
first element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n@public fun IntArray.first(): Int
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n *
Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n@public fun
LongArray.first(): Long {\n if (isEmpty())\n throw NoSuchElementException("Array
is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException
if the array is empty.\n * \n@public fun FloatArray.first(): Float {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n@public fun DoubleArray.first(): Double {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[0]\n}\n\n/**\n * Returns the
first element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n@public fun
BooleanArray.first(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n
return this[0]\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n@public fun CharArray.first(): Char {\n if (isEmpty())\n throw NoSuchElementException("Array
is
empty.")\n return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n * \n@public inline fun <T> Array<out T>.first(predicate:
(T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

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*^public inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun IntArray.first(predicate: (Int) -> Boolean): Int {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun LongArray.first(predicate: (Long) -> Boolean): Long {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first element matching the given [predicate].
* @throws [NoSuchElementException] if no such element is found.

*^public inline fun CharArray.first(predicate: (Char) -> Boolean): Char {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

* Returns the first non-null value produced by [transform] function being applied to elements of this array in iteration order.
* or throws [NoSuchElementException] if no non-null value was produced.
* @sample samples.collections.Collections.Transformations.firstNotNullOf

*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly
*^public inline fun <T, R : Any> Array<out T>.firstNotNullOf(transform: (T) -> R?): R {
    return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the array was transformed to a non-null value.")
}

* Returns the first non-null value produced by [transform] function being applied to elements of this array in iteration order.
* or `null` if no non-null value was produced.
* @sample samples.collections.Collections.Transformations.firstNotNullOf

*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly
*^public inline fun <T, R : Any> Array<out T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {
    for (element in this) {
        val result = transform(element)
        if (result != null) return result
    }
    return null
}

* Returns the first element, or `null` if the array is empty.

*^public fun <T> Array<out T>.firstOrNull(): T? {
    return if (isEmpty()) null else this[0]
}

* Returns the first element, or `null` if the array is empty.

*^public fun ByteArray.firstOrNull(): Byte? {
    return if (isEmpty()) null else this[0]
}

* Returns the first element, or `null` if the array is empty.

*^public fun ShortArray.firstOrNull(): Short? {
    return if (isEmpty()) null else this[0]
}

* Returns the first element, or `null` if the array is empty.

*^public fun IntArray.firstOrNull(): Int? {
    return if (isEmpty()) null else this[0]
}

* Returns

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the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
FloatArray.firstOrNull(): Float? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n    return if (isEmpty()) null
else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
BooleanArray.firstOrNull(): Boolean? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\npublic
fun CharArray.firstOrNull(): Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out
T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n
return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n    for (element in this)
if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) ->
Boolean): Short? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null`
if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n    for
(element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n
for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n    for (element in this) if
(predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if
element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean):
Boolean? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Array<out T>.getOrNull(index: Int, defaultValue: (Int) -> T): T? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given
[index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrNull(index: Int, defaultValue: (Int) -> Byte):
Byte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrNull(index: Int, defaultValue: (Int)
-> Short): Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrNull(index: Int,
defaultValue: (Int) -> Int): Int? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of

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calling the [defaultValue] function if the [index] is out of bounds of this array.\n

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*^@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float):
Float {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of
this array.\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index:
Int, defaultValue: (Int) -> Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n*^@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char):
Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrElseOrNull\n
*^npublic fun <T> Array<out T>.getOrElse(index: Int): T? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun
ByteArray.getOrElseOrNull(index: Int): Byte? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun ShortArray.getOrElseOrNull(index: Int):
Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun IntArray.getOrElseOrNull(index:
Int): Int? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun LongArray.getOrElseOrNull(index: Int): Long? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun FloatArray.getOrElseOrNull(index: Int): Float? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun DoubleArray.getOrElseOrNull(index: Int): Double?
{\n    return if (index >= 0 && index
<= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out
of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun
BooleanArray.getOrElseOrNull(index: Int): Boolean? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n * \n * @sample samples.collections.Collections.Elements.getOrElseOrNull\n*^npublic fun CharArray.getOrElseOrNull(index: Int):
Char? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\n*^npublic fun <@kotlin.internal.OnlyInputTypes T>
Array<out T>.indexOf(element: T): Int {\n    if (element == null) {\n        for (index in indices) {\n            if
(this[index] == null) {\n                return index\n            }\n        }\n    } else {\n        for (index in indices) {\n            if (element == this[index]) {\n                return index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain
element.\n */\n*^npublic fun ByteArray.indexOf(element: Byte): Int {\n    for (index in indices) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n */\n*^npublic fun ShortArray.indexOf(element: Short): Int {\n    for (index in

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indices) {
    if (element == this[index]) {
        return index
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@public fun IntArray.indexOf(element: Int): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@public fun LongArray.indexOf(element: Long): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or 'asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfFirst { it == element }"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6", hiddenSince = "1.7")
@public fun FloatArray.indexOf(element: Float): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or 'asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfFirst { it == element }"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6", hiddenSince = "1.7")
@public fun DoubleArray.indexOf(element: Double): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@public fun BooleanArray.indexOf(element: Boolean): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns first index of [element], or -1 if the array does not contain element.

@public fun CharArray.indexOf(element: Char): Int {
    for (index in indices) {
        if (element == this[index]) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

@public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

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* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such
element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in
indices) {\n if (predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns
index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in
indices.reversed()) {\n if (predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n
* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such
element.\n */\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in
indices.reversed()) {\n if (predicate(this[index])) {\n
return index\n } } return -1\n}\n\n/**\n * Returns index of the last element matching the given
[predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed())
{\n if (predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns index of
the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline
fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if
(predicate(this[index])) {\n return index\n } } return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfLast(predicate:
(Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return
index\n } } return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -
1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) ->
Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n
} } return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array
is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.last():
T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is
empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException("Array is
empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the
array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last():
Long {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample

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samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n  if (isEmpty())\n  throw NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double {\n  if (isEmpty())\n  throw NoSuchElementException("Array is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n  if (isEmpty())\n  throw NoSuchElementException("Array
  is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws
  NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n  if (isEmpty())\n  throw NoSuchElementException("Array is
  empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
  @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) ->
  Boolean): T {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
  (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains no element
  matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
  NoSuchElementException if no
  such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun
  ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n  for (index in this.indices.reversed()) {\n    val element =
  this[index]\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains
  no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
  @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean):
  Short {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element))
  return element\n  }\n  throw NoSuchElementException("Array contains no element matching the
  predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
  NoSuchElementException
  if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun
  IntArray.last(predicate: (Int) -> Boolean): Int {\n  for (index in this.indices.reversed()) {\n    val element =
  this[index]\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains
  no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
  @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean):
  Long {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element))
  return element\n  }\n  throw NoSuchElementException("Array contains no element matching the
  predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
  NoSuchElementException
  if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun
  FloatArray.last(predicate: (Float) -> Boolean): Float {\n  for (index in this.indices.reversed()) {\n    val element
  = this[index]\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array
  contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given
  [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.last(predicate: (Double) ->
  Boolean): Double {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
  (predicate(element)) return element\n  }\n  throw NoSuchElementException("Array contains no element
  matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *

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* @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun BooleanArray.last(predicate: (Boolean) ->
Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun CharArray.last(predicate: (Char) -> Boolean):
Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the
array does not contain element.\n *\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out
T>.lastIndexOf(element: T): Int {\n if (element == null) {\n for (index in indices.reversed()) {\n if
(this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices.reversed())
{\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
ByteArray.lastIndexOf(element: Byte): Int {\n for (index in indices.reversed()) {\n if (element == this[index])
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array
does not contain element.\n *\npublic fun ShortArray.lastIndexOf(element: Short): Int {\n for (index in
indices.reversed()) {\n if (element == this[index])
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array
does not contain element.\n *\npublic fun IntArray.lastIndexOf(element: Int): Int {\n for (index in
indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
LongArray.lastIndexOf(element: Long): Int {\n for (index in indices.reversed()) {\n if (element ==
this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\n@Deprecated("The function has unclear behavior when searching for NaN
or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this
behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior
as in a list.", ReplaceWith("indexOfLast { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.6", hiddenSince = "1.7")\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index
in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed
soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element:
T)' to get the same search behavior as in a list.", ReplaceWith("indexOfLast { it == element
}"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6", hiddenSince = "1.7")\npublic fun
DoubleArray.lastIndexOf(element: Double): Int {\n for (index in indices.reversed()) {\n if (element
== this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -
1 if the array does not contain element.\n *\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n for
(index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
CharArray.lastIndexOf(element: Char): Int {\n for (index in indices.reversed()) {\n if (element == this[index])
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is
empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic fun <T> Array<out
T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null`
if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\npublic fun ByteArray.lastOrNull(): Byte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample

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samples.collections.Collections.Elements.last\n *\npublic fun ShortArray.lastOrNull(): Short? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n *\npublic fun IntArray.lastOrNull(): Int? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n *\npublic fun LongArray.lastOrNull(): Long? {\n  return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n *
@sample samples.collections.Collections.Elements.last\n *\npublic
fun FloatArray.lastOrNull(): Float? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic
fun DoubleArray.lastOrNull(): Double? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the
last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\npublic fun BooleanArray.lastOrNull(): Boolean? {\n  return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic fun CharArray.lastOrNull(): Char? {\n  return if
(isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic
inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n  for (index in this.indices.reversed())
{\n    val element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) ->
Boolean): Byte? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun ShortArray.lastOrNull(predicate: (Short) ->
Boolean): Short? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element))
return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n *\npublic inline
fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean)
-> Boolean): Boolean? {\n  for (index in this.indices.reversed())
{\n    val element = this[index]\n    if (predicate(element)) return element\n  }\n  return null\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun CharArray.lastOrNull(predicate: (Char) ->

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Boolean): Char? {\n  for (index in this.indices.reversed()) {\n    val element = this[index]\n    if
(predicate(element)) return element\n  }\n  return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.random():
Byte {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.random(): Short {\n  return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n  return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.random(): Long {\n  return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random():
Float {\n  return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.random(): Double {\n  return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.random(): Char {\n  return random(Random)\n}\n\n/**\n * Returns a random element from
this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n\n*/\n@SinceKotlin("1.3")\npublic fun
<T> Array<out T>.random(random: Random): T {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n\n*/\n@SinceKotlin("1.3")\npublic fun ByteArray.random(random: Random): Byte {\n  if
(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\npublic
fun ShortArray.random(random: Random): Short {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException
if this array is empty.\n\n*/\n@SinceKotlin("1.3")\npublic fun IntArray.random(random: Random): Int {\n  if
(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n\n*/\n@SinceKotlin("1.3")\npublic
fun LongArray.random(random: Random): Long {\n  if (isEmpty())\n    throw
NoSuchElementException("Array is empty.")\n  return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n\n*/\n@SinceKotlin("1.3")\npublic fun FloatArray.random(random: Random): Float {\n  if
(isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from

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this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n *\n@SinceKotlin("1.3")\npublic fun DoubleArray.random(random: Random): Double {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n *\n@SinceKotlin("1.3")\npublic
fun BooleanArray.random(random: Random): Boolean {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n *\n@SinceKotlin("1.3")\npublic fun CharArray.random(random: Random): Char {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.")\n
return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is
empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ShortArray.randomOrNull(): Short? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun IntArray.randomOrNull(): Int? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun LongArray.randomOrNull(): Long? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun FloatArray.randomOrNull(): Float? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun DoubleArray.randomOrNull(): Double? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun BooleanArray.randomOrNull(): Boolean? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun CharArray.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out
T>.randomOrNull(random: Random): T? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using
the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ByteArray.randomOrNull(random: Random): Byte? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
ShortArray.randomOrNull(random: Random): Short? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
IntArray.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns
a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
LongArray.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
FloatArray.randomOrNull(random: Random): Float? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
DoubleArray.randomOrNull(random: Random): Double? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n
* Returns a random element from this array using the specified source of randomness, or `null` if this array is
empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
BooleanArray.randomOrNull(random: Random): Boolean? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharArray.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n
*/\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 ->
throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n
*/\npublic fun
ByteArray.single(): Byte {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n
*/\npublic fun ShortArray.single(): Short {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*/\npublic fun IntArray.single(): Int {\n return when
(size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n
*/\npublic fun LongArray.single(): Long {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n
*/\npublic fun
FloatArray.single(): Float {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array

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is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is empty.")\n        1 -> this[0]\n        else -> throw\n\n        NoSuchElementException("Array has more than one element.")\n    }\n}\n\n/**\n * Returns the single element, or\n * throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single():\n\n    Boolean {\n        return when (size) {\n            0 -> throw NoSuchElementException("Array is empty.")\n            1 ->\n\n            this[0]\n            else -> throw NoSuchElementException("Array has more than one element.")\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic\n\nfun CharArray.single(): Char {\n    return when (size) {\n        0 -> throw NoSuchElementException("Array is\n\n        empty.")\n        1 -> this[0]\n        else -> throw NoSuchElementException("Array has more\n\n        than one element.")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws\n * exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out\n\n    T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw NoSuchElementException("Array contains more than one\n\n            matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw\n\n    NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as T\n}\n\n/**\n * Returns the single element matching the\n * given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun\n\n    ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n    var single: Byte? = null\n    var found = false\n    for\n\n    (element\n\n        in this) {\n        if (predicate(element)) {\n            if (found) throw NoSuchElementException("Array contains more\n\n            than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw\n\n    NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Byte\n}\n\n/**\n * Returns the single element matching\n * the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun\n\n    ShortArray.single(predicate: (Short) -> Boolean): Short {\n    var single: Short? = null\n    var found = false\n    for\n\n    (element in this) {\n        if (predicate(element)) {\n            if (found) throw NoSuchElementException("Array\n\n            contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n\n    (!found) throw\n\n    NoSuchElementException("Array contains no element matching\n\n        the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Short\n}\n\n/**\n * Returns the\n * single element matching the given [predicate], or throws exception if there is no or more than one matching\n * element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n    var single: Int? = null\n    var\n\n    found =\n\n    false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n\n            NoSuchElementException("Array contains more than one matching element.")\n            single = element\n\n            found = true\n        }\n    }\n    if (!found) throw\n\n    NoSuchElementException("Array contains no element matching\n\n        the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Int\n}\n\n/**\n * Returns the single\n * element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n\n    *\n\n    public inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n    var single: Long?\n\n    =\n\n    null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n\n            NoSuchElementException("Array contains more than one matching element.")\n            single = element\n\n            found = true\n        }\n    }\n    if (!found) throw\n\n    NoSuchElementException("Array contains no element matching\n\n        the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as Long\n}\n\n/**\n * Returns the\n * single element matching the given [predicate], or throws exception if there is no or more than one matching\n * element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n    var single: Float? =\n\n    null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n\n            NoSuchElementException("Array contains more than one matching element.")\n            single = element\n\n            found = true\n        }\n    }\n    if (!found) throw\n\n    NoSuchElementException("Array\n\n        contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as\n\n    Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or

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more than one matching element.\n *\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean):
Double {\n  var single: Double? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element))
{\n      if (found) throw IllegalArgumentException("\nArray contains more than one matching element.\n")\n    }
single = element\n    found = true\n  }\n  if (!found) throw NoSuchElementException("\nArray
contains no element matching the predicate.\n")\n  @Suppress("\nUNCHECKED_CAST\n")\n  return single as
Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n *\npublic inline fun BooleanArray.single(predicate:
(Boolean) -> Boolean): Boolean {\n  var single: Boolean? = null\n  var found = false\n  for (element in this) {\n
if (predicate(element)) {\n    if (found) throw IllegalArgumentException("\nArray contains more than one
matching element.\n")\n    single = element\n    found = true\n  }\n  if (!found) throw
NoSuchElementException("\nArray contains no element matching the predicate.\n")\n  @Suppress("\nUNCHECKED_CAST\n")
return single as Boolean\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\npublic
inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n  var single: Char? = null\n  var found =
false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) throw
IllegalArgumentException("\nArray contains more than one matching element.\n")\n      single = element\n
found = true\n    }\n  }\n  if (!found) throw NoSuchElementException("\nArray contains no element
matching the predicate.\n")\n  @Suppress("\nUNCHECKED_CAST\n")\n  return single as Char\n}\n\n/**\n *
Returns single element, or `null` if the array is empty or has more than one element.\n *\npublic fun <T> Array<out
T>.singleOrNull(): T? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n *\npublic fun ByteArray.singleOrNull(): Byte? {\n  return if
(size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one
element.\n *\npublic fun ShortArray.singleOrNull(): Short? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n *
Returns single element, or `null` if the array is empty or has more than one element.\n *\npublic fun
IntArray.singleOrNull(): Int? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null`
if the array is empty or has more than one element.\n *\npublic fun
LongArray.singleOrNull(): Long? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element,
or `null` if the array is empty or has more than one element.\n *\npublic fun FloatArray.singleOrNull(): Float? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n *\npublic fun DoubleArray.singleOrNull(): Double? {\n  return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n *\npublic
fun BooleanArray.singleOrNull(): Boolean? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n *\npublic fun CharArray.singleOrNull():
Char? {\n  return if (size == 1) this[0] else null\n}\n\n/**\n * Returns
the single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n *\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n  var single: T? =
null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if (found) return null\n
single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n *\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n  var
single: Byte? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if
(found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n *\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n
var single: Short? = null\n  var found = false\n  for (element in this) {\n    if (predicate(element)) {\n      if
(found) return null\n      single = element\n      found = true\n    }\n  }\n  if (!found) return null\n  return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or

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more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int?
{\n    var single: Int? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n
if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n
return single\n}\n\n/**\n
* Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var
single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n                single = element\n                found = true\n            }\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n
* Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) return null\n                single = element\n                found = true\n            }\n        }\n    }\n    if (!found) return
null\n
return single\n}\n\n/**\n
* Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -
> Boolean): Double? {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n        if
(predicate(element)) {\n            if (found) return null\n                single = element\n                found = true\n            }\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n
* Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    var single: Boolean? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n                single
= element\n                found = true\n            }\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n
* Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun
CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n                single = element\n
found = true\n            }\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n
>= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n
* Returns a list containing all elements except first [n] elements.\n * \n * @throws

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IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element
count $n is less than zero.\" }\n  return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list
containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n *^\npublic fun <T> Array<out T>.dropLast(n:
Int): List<T> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n *^\npublic fun
ShortArray.dropLast(n: Int): List<Short> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\"
}\n  return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return
take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n *
\n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *^\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*^\npublic fun BooleanArray.dropLast(n: Int): List<Boolean> {\n  require(n >= 0) { \"Requested element count $n
is less than zero.\" }\n  return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements

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except last [n] elements.\n \* \n \* @throws IllegalArgumentException if [n] is negative.\n \* \n \* @sample

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samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) {\n"Requested element count $n is less than zero.\n" }\n  return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n  for (index in lastIndex downTo 0) {\n    if
(!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n  for (index in lastIndex downTo 0) {\n
  if (!predicate(this[index])) {\n    return take(index + 1)\n  }\n}\n  return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except last elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n  for (index in lastIndex downTo 0) {\n    if
(!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
  return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
  return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
  return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all
elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index])) {\n
  return take(index + 1)\n    }\n  }\n  return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for
(item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n
yielding
= true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy
the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline
fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n  var yielding = false\n  val list =

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ArrayList<Byte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n
if (yielding)\n list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropWhile(predicate: (Int) ->
Boolean): List<Int> {\n var yielding = false\n val list = ArrayList<Int>()\n for (item in this)\n if
(yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n
}\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n var yielding = false\n val list =
ArrayList<Long>()\n for (item in this)\n if (yielding)\n
list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return
list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n
* @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n var yielding = false\n val list =
ArrayList<Float>()\n for (item in this)\n if (yielding)\n
list.add(item)\n else if (!predicate(item))
{\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n var yielding = false\n val list = ArrayList<Double>()\n
for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n
list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun BooleanArray.dropWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n var yielding = false\n val list = ArrayList<Boolean>()\n for (item in
this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun CharArray.dropWhile(predicate: (Char) -> Boolean):
List<Char> {\n var yielding = false\n val list = ArrayList<Char>()\n for (item in this)\n if (yielding)\n
list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return
list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun <T> Array<out T>.filter(predicate: (T) ->
Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n return
filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n return
filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n *\npublic inline fun
IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n *\npublic inline fun LongArray.filter(predicate: (Long) ->

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Boolean): List<Long> {\n  return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n  return
filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filter(predicate: (Double) ->
Boolean): List<Double> {\n  return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) ->
Boolean): List<Boolean> {\n  return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) ->
Boolean): List<Char> {\n  return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * @param [predicate] function
that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T>
Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n  return
filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns
the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ByteArray.filterIndexed(predicate:
(index: Int, Byte) -> Boolean): List<Byte> {\n  return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and
the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n  return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n  return
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result
of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*/\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n  return
filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun FloatArray.filterIndexed(predicate:
(index: Int, Float) -> Boolean): List<Float> {\n  return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n
* @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n  return
filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample

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samples.collections.Collections.Filtering.filterIndexed\n * \npublic inline fun BooleanArray.filterIndexed(predicate:
(index: Int, Boolean) -> Boolean): List<Boolean> {\n  return filterIndexedTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*/\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n  return
filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>
Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n  forEachIndexed {
index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Byte>>
ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n  forEachIndexed {
index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterIndexedTo(destination: C, predicate:
(index: Int, Short) -> Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n
}\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given
[destination].\n * @param [predicate] function that takes the index of an element and the element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n  forEachIndexed { index,
element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n
* Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that
takes the index of an element and the element itself\n
* and returns the result of predicate evaluation on the
element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C :
MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n  forEachIndexed {
index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes
the index of an element and the element itself\n
* and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C :
MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given

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[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <C : MutableCollection<in
Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n
forEachIndexed { index, element ->\n
    if (predicate(index, element)) destination.add(element)\n
} \n
return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the
index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n *
@sample samples.collections.Collections.Filtering.filterIndexedTo\n * \n\npublic inline fun <C :
MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean):
C {\n
forEachIndexed { index, element ->\n
    if (predicate(index, element)) destination.add(element)\n
} \n
return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter
R.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n * \n\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n
return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n
* Appends all elements that are instances of specified type parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n * \n\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n
for (element in this) if (element is
R) destination.add(element)\n
return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n
return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\n
return filterNotTo(ArrayList<Byte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun ShortArray.filterNot(predicate: (Short) ->
Boolean): List<Short> {\n
return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean):
List<Int> {\n
return filterNotTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n * \n\npublic
inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n
return
filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n
* \n * @sample samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun
FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n
return filterNotTo(ArrayList<Float>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->
Boolean): List<Double> {\n
return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -
> Boolean): List<Boolean> {\n
return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n * \n\npublic inline
fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n
return filterNotTo(ArrayList<Char>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\n * \n\npublic fun <T : Any> Array<out T?>.filterNotNull():
List<T> {\n
return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the

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given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n *^\npublic fun <C
: MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if
(element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination:
C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given
[destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C :
MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate:
(Float) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <T, C : MutableCollection<in T>>
Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*^\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) ->
Boolean):
C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *^\npublic inline fun <C : MutableCollection<in Short>>

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ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {
    for (element in this) if
    (predicate(element)) destination.add(element)
    return destination
}
Append all elements matching
the given [predicate] to the given [destination].
@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean):
C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Long>>
LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {
    for (element in this) if
    (predicate(element)) destination.add(element)
    return destination
}
Append all elements matching
the given [predicate] to the given [destination].
@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) ->
Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return
    destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in
Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {
    for (element in this) if
    (predicate(element))
    destination.add(element)
    return destination
}
Append all elements matching the given [predicate]
to the given [destination].
@sample samples.collections.Collections.Filtering.filterTo
public inline fun
<C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C
{
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}
Append all elements matching the given [predicate] to the given [destination].
@sample
samples.collections.Collections.Filtering.filterTo
public inline fun <C : MutableCollection<in Char>>
CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this) if
    (predicate(element)) destination.add(element)
    return destination
}
Returns a list containing elements
at indices in the specified [indices] range.
public fun <T> Array<out T>.slice(indices: IntRange):
List<T> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive +
    1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.
public fun ByteArray.slice(indices: IntRange): List<Byte> {
    if (indices.isEmpty()) return listOf()
    return
    copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing elements at
indices in the specified [indices] range.
public fun ShortArray.slice(indices: IntRange): List<Short> {
    if
    (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive +
    1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.
public fun IntArray.slice(indices: IntRange): List<Int> {
    if (indices.isEmpty()) return listOf()
    return
    copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing
elements at indices in the specified [indices] range.
public fun LongArray.slice(indices: IntRange):
List<Long> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive +
    1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.
public fun FloatArray.slice(indices: IntRange): List<Float> {
    if (indices.isEmpty()) return listOf()
    return
    copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list containing elements at
indices in the specified [indices] range.
public fun DoubleArray.slice(indices: IntRange): List<Double> {
    if
    (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive +
    1).asList()
}
Returns a list containing elements at indices in the specified [indices] range.
public fun BooleanArray.slice(indices: IntRange): List<Boolean> {
    if (indices.isEmpty())
    return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
Returns a list
containing elements at indices in the specified [indices] range.
public fun CharArray.slice(indices: IntRange):
List<Char> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive +
    1).asList()
}
Returns a list containing elements at specified [indices].
public fun <T> Array<out
T>.slice(indices: Iterable<Int>): List<T> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0)

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return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Byte>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

ShortArray.slice(indices: Iterable<Int>): List<Short> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Short>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

IntArray.slice(indices: Iterable<Int>): List<Int> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Int>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

LongArray.slice(indices: Iterable<Int>): List<Long> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Long>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

FloatArray.slice(indices: Iterable<Int>): List<Float> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Float>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Double>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Boolean>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n\npublic fun  

CharArray.slice(indices: Iterable<Int>): List<Char> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Char>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

<T>  

Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n    val result = arrayOfNulls(this, indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n    val result = ByteArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n    val result = ShortArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

IntArray.sliceArray(indices: Collection<Int>): IntArray {\n    val result = IntArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

LongArray.sliceArray(indices: Collection<Int>): LongArray {\n    val result = LongArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n    val result = FloatArray(indices.size)\n    var targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun  

DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n    val result = DoubleArray(indices.size)\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n\npublic fun

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var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] =
  this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements of this array at
specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n  val
result = BooleanArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n
result[targetIndex++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements
of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n
val result = CharArray(indices.size)\n  var targetIndex = 0\n  for (sourceIndex in indices) {\n
result[targetIndex++] = this[sourceIndex]\n  }\n  return result\n}\n\n/**\n * Returns an array containing elements
at indices in the specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T>
{\n  if (indices.isEmpty()) return copyOfRange(0, 0)\n  return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n  if (indices.isEmpty()) return
ByteArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices:
IntRange): ShortArray {\n  if (indices.isEmpty()) return ShortArray(0)\n  return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n  if (indices.isEmpty()) return
IntArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices:
IntRange): LongArray {\n  if (indices.isEmpty()) return LongArray(0)\n  return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n  if (indices.isEmpty()) return
FloatArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array
containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices:
IntRange): DoubleArray {\n  if (indices.isEmpty()) return DoubleArray(0)\n  return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]
range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n  if (indices.isEmpty())
return BooleanArray(0)\n  return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n  if (indices.isEmpty()) return CharArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n *
@throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<T>(n)\n  for
(item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is
negative.\n */\n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun
ByteArray.take(n: Int): List<Byte> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if
(n == 0) return emptyList()\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n
val list = ArrayList<Byte>(n)\n  for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n
}\n  return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n * @throws
IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Short>(n)\n  for
(item

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in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns a list
containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Int>(n)\n    for
(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element
count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1)
return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Long>(n)\n    for (item in this) {\n
list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Float>(n)\n    for
(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Double>(n)\n
for (item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.}\n\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n
    val list = ArrayList<Boolean>(n)\n    for (item in this) {\n    list.add(item)\n    if (++count == n)\n
break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun CharArray.take(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Char>(n)\n    for
(item in this) {\n    list.add(item)\n    if (++count == n)\n        break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Array<out T>.takeLast(n:
Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list
= ArrayList<T>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.}\n\npublic fun ByteArray.takeLast(n: Int):
List<Byte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list
= ArrayList<Byte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =

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size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val
list = ArrayList<Int>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.takeLast(n: Int):
List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Long>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.takeLast(n: Int):
List<Float> {\n require(n >= 0) { \"Requested element count
$n is less than zero.\" }\n if (n == 0) return emptyList()\n val size = size\n if (n >= size) return toList()\n if
(n == 1) return listOf(this[size - 1])\n val list = ArrayList<Float>(n)\n for (index in size - n until size)\n
list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.takeLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<Double>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun BooleanArray.takeLast(n:
Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Boolean>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun CharArray.takeLast(n: Int):
List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Char>(n)\n for (index in size
- n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in
lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeLastWhile(predicate: (Int)
-> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return
drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the

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given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index]))
{\n return drop(index + 1)\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in
lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return drop(index + 1)\n }\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n
* \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return drop(index + 1)\n }\n }\n }\n return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return drop(index + 1)\n }\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list
= ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n
return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n
break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item
in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a
list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n val list = ArrayList<Int>()\n
for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate:
(Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item in this) {\n if
(!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float>
{\n val list = ArrayList<Float>()\n for (item in this) {\n if (!predicate(item))\n break\n
list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun
DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list = ArrayList<Double>()\n
for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if
(!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n

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* Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun CharArray.takeWhile(predicate: (Char
-> Boolean): List<Char> {\n    val list = ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic
fun <T> Array<T>.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var
reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the
array in-place.\n *\npublic fun ByteArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0)
return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)\n    {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun ShortArray.reverse():
Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index
in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun IntArray.reverse():
Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index
in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun LongArray.reverse():
Unit {\n    val
midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)
{\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun FloatArray.reverse():
Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index
in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun
DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex =
lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun BooleanArray.reverse(): Unit {\n    val
midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint)
{\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n
reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n *\npublic fun CharArray.reverse():
Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index
in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] =
tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param
fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to
reverse.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun <T>
Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =
toIndex - 1\n    for (index in fromIndex until midPoint) {\n        val tmp = this[index]\n        this[index] =
this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.4")\npublic fun
ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n    val midPoint = (fromIndex + toIndex) / 2\n    if (fromIndex == midPoint) return\n    var reverseIndex =

```

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toIndex - 1\n for (index in fromIndex until midPoint) {\n     val tmp = this[index]\n     this[index] =
this[reverseIndex]\n     this[reverseIndex] = tmp\n     reverseIndex--\n } }\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic fun
ShortArray.reverse(fromIndex:
Int, toIndex: Int): Unit {\n     AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n     val midPoint =
(fromIndex + toIndex) / 2\n     if (fromIndex == midPoint) return\n     var reverseIndex = toIndex - 1\n     for (index in
fromIndex until midPoint) {\n         val tmp = this[index]\n         this[index] = this[reverseIndex]\n
this[reverseIndex] = tmp\n         reverseIndex--\n     } }\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n     val midPoint = (fromIndex + toIndex) / 2\n     if
(fromIndex == midPoint) return\n     var reverseIndex = toIndex - 1\n     for (index in fromIndex until midPoint) {\n
val tmp = this[index]\n     this[index] = this[reverseIndex]\n     this[reverseIndex] = tmp\n     reverseIndex--\n
} }\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n     val midPoint = (fromIndex + toIndex) / 2\n     if
(fromIndex == midPoint) return\n     var reverseIndex = toIndex - 1\n     for (index in fromIndex until midPoint) {\n
val tmp = this[index]\n     this[index] =
this[reverseIndex]\n     this[reverseIndex] = tmp\n     reverseIndex--\n } }\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n     AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n     val midPoint = (fromIndex + toIndex) / 2\n     if (fromIndex == midPoint) return\n     var reverseIndex =
toIndex - 1\n     for (index in fromIndex until midPoint) {\n         val tmp = this[index]\n         this[index] =
this[reverseIndex]\n         this[reverseIndex] = tmp\n         reverseIndex--\n     } }\n\n/**\n * Reverses elements of the array in the
specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param
toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic fun DoubleArray.reverse(fromIndex: Int,
toIndex: Int): Unit {\n     AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n     val midPoint = (fromIndex
+ toIndex) / 2\n     if (fromIndex == midPoint) return\n     var reverseIndex = toIndex - 1\n     for (index in
fromIndex until midPoint) {\n         val tmp = this[index]\n         this[index] = this[reverseIndex]\n         this[reverseIndex] =
tmp\n         reverseIndex--\n     } }\n\n/**\n * Reverses elements of the array in the specified range in-place.\n *
\n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * ^\n@SinceKotlin("1.4")\npublic

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```

fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/** Reverses elements of the array in the specified range in-place.
 * @param fromIndex the start of the range (inclusive) to reverse.
 * @param toIndex the end of the range (exclusive) to reverse.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
public fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    val midPoint = (fromIndex + toIndex) / 2
    if (fromIndex == midPoint) return
    var reverseIndex = toIndex - 1
    for (index in fromIndex until midPoint) {
        val tmp = this[index]
        this[index] = this[reverseIndex]
        this[reverseIndex] = tmp
        reverseIndex--
    }
}

/** Returns a list with elements in reversed order.
 */
public fun <T> Array<out T>.reversed(): List<T> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun ByteArray.reversed(): List<Byte> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun ShortArray.reversed(): List<Short> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun IntArray.reversed(): List<Int> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun LongArray.reversed(): List<Long> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun FloatArray.reversed(): List<Float> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun DoubleArray.reversed(): List<Double> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun BooleanArray.reversed(): List<Boolean> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns a list with elements in reversed order.
 */
public fun CharArray.reversed(): List<Char> {
    if (isEmpty()) return emptyList()
    val list = toMutableList()
    list.reverse()
    return list
}

/** Returns an array with elements of this array in reversed order.
 */
public fun <T> Array<T>.reversedArray(): Array<T> {
    if (isEmpty()) return this
    val result = arrayOfNulls(this, size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun ByteArray.reversedArray(): ByteArray {
    if (isEmpty()) return this
    val result = ByteArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun ShortArray.reversedArray(): ShortArray {
    if (isEmpty()) return this
    val result = ShortArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun IntArray.reversedArray(): IntArray {
    if (isEmpty()) return this
    val result = IntArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun LongArray.reversedArray(): LongArray {
    if (isEmpty()) return this
    val result = LongArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun FloatArray.reversedArray(): FloatArray {
    if (isEmpty()) return this
    val result = FloatArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

/** Returns an array with elements of this array in reversed order.
 */
public fun DoubleArray.reversedArray():

```

```

DoubleArray {
    if (isEmpty()) return this
    val result = DoubleArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]

    return result
}

* Returns an array with elements of this array in reversed order.
public fun BooleanArray.reversedArray(): BooleanArray {
    if (isEmpty()) return this
    val result = BooleanArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

* Returns an array with elements of this array in reversed order.
public fun CharArray.reversedArray():
CharArray {
    if (isEmpty()) return this
    val result = CharArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

* Randomly shuffles elements in this
array in-place.
@SinceKotlin("1.4")
public fun <T> Array<T>.shuffle(): Unit {
    shuffle(Random)
}

* Randomly shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun ByteArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly
shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun ShortArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun IntArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly
shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun LongArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun FloatArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly
shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun DoubleArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly shuffles elements in this array in-place.
@SinceKotlin("1.4")
public fun BooleanArray.shuffle(): Unit {
    shuffle(Random)
}

* Randomly
shuffles elements in this array in-place using the specified [random] instance as the source of randomness.
* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm
@SinceKotlin("1.4")
public fun <T> Array<T>.shuffle(random: Random): Unit {
    for (i in lastIndex
downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

* Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.
* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm
@SinceKotlin("1.4")
public fun ByteArray.shuffle(random: Random): Unit {
    for (i in lastIndex
downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

* Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.
* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm
@SinceKotlin("1.4")
public fun ShortArray.shuffle(random: Random): Unit {
    for (i in lastIndex
downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

* Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.
* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm
@SinceKotlin("1.4")
public fun IntArray.shuffle(random: Random): Unit {
    for (i in lastIndex
downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

* Randomly shuffles elements in this array in-place
using the specified [random] instance as the source of randomness.
* See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm
@SinceKotlin("1.4")
public fun LongArray.shuffle(random: Random): Unit {
    for (i in lastIndex
downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

* Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.
* See:

```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortBy(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1) sortByDescending(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n    sortByDescending(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun ByteArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun ShortArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun IntArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun LongArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun FloatArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun DoubleArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \npublic fun CharArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n    return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \npublic fun ByteArray.sorted(): List<Byte> {\n    return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural
```

```

sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n    return toTypedArray().apply { sort()
}.\n}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
IntArray.sorted(): List<Int> {\n    return toTypedArray().apply { sort() }.\n}.asList()\n}\n\n/**\n * Returns a list of all
elements sorted according to their natural sort order.\n */\npublic fun
LongArray.sorted(): List<Long> {\n    return toTypedArray().apply { sort() }.\n}.asList()\n}\n\n/**\n * Returns a list of
all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n
return toTypedArray().apply { sort() }.\n}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their
natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n    return toTypedArray().apply { sort()
}.\n}.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun
CharArray.sorted(): List<Char> {\n    return toTypedArray().apply { sort() }.\n}.asList()\n}\n\n/**\n * Returns an array
with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArray(): Array<T> {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted
according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n    if
(isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun
FloatArray.sortedArray(): FloatArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n
public fun DoubleArray.sortedArray(): DoubleArray {\n    if (isEmpty()) return this\n    return
this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their
natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n    if (isEmpty()) return this\n    return
this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArrayDescending():
Array<T> {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic
fun ByteArray.sortedArrayDescending(): ByteArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n    if (isEmpty()) return
this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this
array sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending():
IntArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array
sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending():
LongArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun
FloatArray.sortedArrayDescending(): FloatArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n    if (isEmpty())
return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n */\npublic fun

```



```

CharArray.sortedArrayDescending(): CharArray {\n  if (isEmpty()) return this\n  return this.copyOf().apply
  { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T>
{\n  if (isEmpty()) return this\n  return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list
of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n *
The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n *
@sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector]
function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R :
Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
DoubleArray.sortedBy(crossinline
selector: (Double) -> R?): List<Double> {\n  return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list
of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n *
@sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n * \n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural
sort order of the value returned by specified [selector] function.\n * \n *
The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?):
List<T> {\n  return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted
descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline
fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n

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return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n return sortedWith(reverseOrder())\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun ByteArray.sortedDescending(): List<Byte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun ShortArray.sortedDescending(): List<Short> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun IntArray.sortedDescending(): List<Int> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun LongArray.sortedDescending(): List<Long> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun FloatArray.sortedDescending(): List<Float> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun DoubleArray.sortedDescending(): List<Double> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \*/\npublic fun CharArray.sortedDescending(): List<Char> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n return sortedArrayWith(comparator).asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to the specified [comparator].\n \*/\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n return toTypedArray().apply {

`sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long>`
  
`{`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float>`
  
`{`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double>`
  
`{`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean>`
  
`{`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a list of all elements sorted according to the specified [comparator].

`public fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char>`
  
`{`
  
`return toTypedArray().apply { sortedWith(comparator) }.asList()` Returns a [List] that wraps the original array.

`public expect fun <T> Array<out T>.asList(): List<T>` Returns a [List] that wraps the original array.

`public expect fun ByteArray.asList(): List<Byte>` Returns a [List] that wraps the original array.

`public expect fun ShortArray.asList(): List<Short>` Returns a [List] that wraps the original array.

`public expect fun IntArray.asList(): List<Int>` Returns a [List] that wraps the original array.

`public expect fun LongArray.asList(): List<Long>` Returns a [List] that wraps the original array.

`public expect fun FloatArray.asList(): List<Float>` Returns a [List] that wraps the original array.

`public expect fun DoubleArray.asList(): List<Double>` Returns a [List] that wraps the original array.

`public expect fun BooleanArray.asList(): List<Boolean>` Returns a [List] that wraps the original array.

`public expect fun CharArray.asList(): List<Char>` Returns a [List] that wraps the original array.

`contentDeepEquals(other: Array<out T>): Boolean` Returns `true` if the two specified arrays are *deeply* equal to one another, i.e. contain the same number of the same elements in the same order.

If two corresponding elements are nested arrays, they are also compared deeply.

If any of arrays contains itself on any nesting level the behavior is undefined.

The elements of other types are compared for equality with the [equals][Any.equals] function.

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.1")@kotlin.internal.LowPriorityInOverloadResolution`
  
`public expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean` Returns `true` if the two specified arrays are *deeply* equal to one another, i.e. contain the same number of the same elements in the same order.

The specified arrays are also considered deeply equal if both are `null`.

If two corresponding elements are nested arrays, they are also compared deeply.

If any of arrays contains itself on any nesting level the behavior is undefined.

The elements of other types are compared for equality with the [equals][Any.equals] function.

For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

`@SinceKotlin("1.4")`
  
`public expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean` Returns a hash code based on the contents of this array as if it is [List].

Nested arrays are treated as lists too.

If any of arrays contains itself on any nesting level the behavior is undefined.

`@SinceKotlin("1.1")@kotlin.internal.LowPriorityInOverloadResolution`
  
`public expect fun <T> Array<out T>.contentDeepHashCode(): Int` Returns a hash code based on the contents of this array as if it is [List].

Nested arrays are treated as lists too.

If any of arrays contains itself on any nesting level the behavior is undefined.

`@SinceKotlin("1.4")`
  
`public expect fun <T> Array<out T>?.contentDeepHashCode(): Int` Returns a string representation of the contents of this array as if it is a [List].

Nested arrays are treated as lists too.

If any of arrays contains itself on any nesting level that reference is rendered as `[...]` to prevent recursion.

@sample

samples.collections.Arrays.ContentOperations.contentDeepToString\n

\*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `\"[...]\"` to prevent recursion.\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n

\*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentDeepToString(): String\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

\*\n@SinceKotlin("1.4")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n

\*\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n

`*\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun ByteArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun ShortArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun IntArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun LongArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun FloatArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun DoubleArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun BooleanArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@SinceKotlin("1.4")\npublic expect fun CharArray?.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n *\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n *\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n *\n * or when that index is out of the [destination] array indices range.\n *\n * \n * @return the [destination] array.\n *\n@SinceKotlin("1.3")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n *\n * \n * @param`

destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n \* \n \* @SinceKotlin("1.3")\n \* public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n \* \n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when

the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.\n */\n@SinceKotlin("1.3")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n *

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@sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*^\npublic expect fun FloatArray.copyOfOf():  
 FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*^\npublic expect fun DoubleArray.copyOfOf():  
 DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*^\npublic expect fun BooleanArray.copyOfOf():  
 BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original array.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.copyOfOf\n \*^\npublic expect fun CharArray.copyOfOf():  
 CharArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given [newSize].\n \*  
 The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the  
 size of the original array, the copy array is truncated to the [newSize].\n \* -  
 If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero  
 values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic  
 expect fun ByteArray.copyOfOf(newSize: Int): ByteArray\n\n/\*\*\n \* Returns new array which is a copy of the original  
 array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if  
 necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with zero values.\n \* \n \* @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n  
 \*^\npublic expect fun ShortArray.copyOfOf(newSize: Int): ShortArray\n\n/\*\*\n \* Returns new array which is a copy of  
 the original array, resized to the given [newSize].\n \* The copy is either truncated or padded  
 at the end with zero values if necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy  
 array is truncated to the [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements  
 in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic expect fun  
 IntArray.copyOfOf(newSize: Int): IntArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized  
 to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* -  
 If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize]  
 is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \*  
 @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic expect fun  
 LongArray.copyOfOf(newSize:  
 Int): LongArray\n\n/\*\*\n \* Returns new array which is a copy of the original array, resized to the given  
 [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n \* \n \* - If [newSize]  
 is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If [newSize] is greater  
 than the size of the original array, the extra elements in the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic expect fun  
 FloatArray.copyOfOf(newSize: Int): FloatArray\n\n/\*\*\n \* Returns new array which is a copy of the original array,  
 resized to the given [newSize].\n \* The copy is either truncated or padded at the end with zero values if necessary.\n  
 \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n \* - If  
 [newSize] is greater than the size of the original array, the extra elements in  
 the copy array are filled with zero values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic expect fun  
 DoubleArray.copyOfOf(newSize: Int): DoubleArray\n\n/\*\*\n \* Returns new array which is a copy of the original  
 array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with `false` values if  
 necessary.\n \* \n \* - If [newSize] is less than the size of the original array, the copy array is truncated to the  
 [newSize].\n \* - If [newSize] is greater than the size of the original array, the extra elements in the copy array are  
 filled with `false` values.\n \* \n \* @sample  
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n \*^\npublic expect fun  
 BooleanArray.copyOfOf(newSize: Int): BooleanArray\n\n/\*\*\n \* Returns new array which is a copy of the original  
 array, resized to the given [newSize].\n \* The copy is either truncated or padded at the end with null char (`\u0000`)



values if necessary.\n \*

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\n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (\u0000) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n/>\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n *\n@Suppress(\n\nACTUAL_FOR_EXPECT\n)\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@Suppress(\n\nACTUAL_FOR_EXPECT\n)\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n/>\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
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zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than

the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*^@SinceKotlin("1.3")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int
= size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *^@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element:
Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n
*^npublic val <T> Array<out T>.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range
of valid indices for the array.\n *^npublic val ByteArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^npublic val ShortArray.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^npublic
val IntArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *^npublic val LongArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *^npublic val FloatArray.indices: IntRange\n    get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^npublic val DoubleArray.indices:
IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *^npublic
val BooleanArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices
for the array.\n *^npublic val CharArray.indices: IntRange\n    get() = IntRange(0, lastIndex)\n\n/**\n * Returns
`true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty():
Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty():
Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns
`true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n
return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun FloatArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n    return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n    return size == 0\n}\n\n/**\n
* Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun LongArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun DoubleArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun CharArray.isNotEmpty(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the
array.\n *^npublic val <T> Array<out T>.lastIndex: Int\n    get() = size - 1\n\n/**\n * Returns the last valid index

```

for the array.

```

public val ByteArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val ShortArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val IntArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val LongArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val FloatArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val DoubleArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val BooleanArray.lastIndex: Int
    get() = size - 1
    * Returns the last valid index for the array.

public val CharArray.lastIndex: Int
    get() = size - 1
    * Returns an array containing all elements of the original array and then the given [element].

@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(element: T): Array<T>
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun ByteArray.plus(element: Byte): ByteArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun ShortArray.plus(element: Short): ShortArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun IntArray.plus(element: Int): IntArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun LongArray.plus(element: Long): LongArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun FloatArray.plus(element: Float): FloatArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun DoubleArray.plus(element: Double): DoubleArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun BooleanArray.plus(element: Boolean): BooleanArray
    * Returns an array containing all elements of the original array and then the given [element].

public expect operator fun CharArray.plus(element: Char): CharArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun IntArray.plus(elements: Collection<Int>): IntArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun LongArray.plus(elements: Collection<Long>): LongArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.

public expect operator fun CharArray.plus(elements: Collection<Char>): CharArray
    * Returns an array containing all elements of the original array and then all elements of the given [elements] array.

@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>
    * Returns an array containing all elements of the original array and then all elements of the given [elements] array.

public expect operator fun ByteArray.plus(elements: ByteArray):

```

`ByteArray`\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n \*/\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n \*/\n\n@Suppress("NO\_ACTUAL\_FOR\_EXPECT")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun IntArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun LongArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun ByteArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun ShortArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun DoubleArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*/\npublic expect fun FloatArray.sort(): Unit\n\n/\*\*\n \* Sorts the array in-place according to the natural order of its elements.\n \*/\n\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n \*/\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \*/\n\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*/\n\n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \*/\n\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \*/\n\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*/\n\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n \*/\n\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \*/\n\n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \*/\n\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \*/\n\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*/\n\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n\n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n \*/\n\n@SinceKotlin("1.4")\npublic expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \*/\n\n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \*/\n\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \*/\n\n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*/\n\n \* @throws IllegalArgumentException if [fromIndex] is greater than

```

[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
* Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range
(exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n
Sorts
a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\npublic expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n
Sorts elements of the array in the specified
range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param
fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n
\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n
    sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n
Sorts elements of the array in
the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n *
@param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to
sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n
    sort(fromIndex, toIndex)\n
    reverse(fromIndex, toIndex)\n}\n\n/**\n
Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws

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IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic
fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic
fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic
fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex,
    toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted
descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to
sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun
FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException
    if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic fun
DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The
elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the
range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin("1.4")\npublic
fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n
reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n * \n */\npublic expect fun <T>
Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the
given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun <T> Array<out
T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out
Boolean>.toBooleanArray(): BooleanArray {\n    return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out

```

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Byte>.toArray(): ByteArray {\n  return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an
array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray():
CharArray {\n  return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double
containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray():
DoubleArray {\n  return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float
containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray
{\n  return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the
elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n  return IntArray(size) {
index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n
*/\npublic fun Array<out Long>.toLongArray(): LongArray {\n  return LongArray(size) { index -> this[index]
}\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun
Array<out Short>.toShortArray(): ShortArray {\n  return ShortArray(size) { index -> this[index] }\n}\n\n/**\n *
Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun
ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of
this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n */\npublic expect fun
IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of
this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n */\npublic expect fun
FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements
of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun
BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n *
Returns a [Map] containing
key-value pairs provided by [transform] function\n */\n * applied to elements of the given array.\n */\n * \n * If any of two
pairs would have the same key the last one gets added to the map.\n */\n * \n * The returned map preserves the entry
iteration order of the original array.\n */\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <T, K, V>
Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n */\n * applied to
elements of the given array.\n */\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n */\n * \n * The returned map preserves the entry iteration order of the original array.\n */\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline
fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n */\n * applied to
elements of the given array.\n */\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n */\n * \n * The returned map preserves the entry iteration order of the original array.\n */\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline
fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n */\n * applied to
elements of the given array.\n */\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n */\n * \n * The returned map preserves the entry iteration order of the original
array.\n */\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline
fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n  val capacity =

```



```

mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K,
V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform]
function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n val
capacity = mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector:
(T) -> K): Map<K, T> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return
associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n val capacity =
mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n

```

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* \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n
* \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
IntArray.associateBy(keySelector:
(Int) -> K): Map<K, Int> {\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return
associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to
each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun
<K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from
[keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n
*\npublic inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by

```

[keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V):
Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return
    associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V):
Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return
    associateByTo(LinkedHashMap<K, V>(capacity), keySelector,
    valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline
fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
    V>(capacity), keySelector, valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline
fun <K, V> LongArray.associateBy(keySelector:
(Long) -> K, valueTransform: (Long) -> V): Map<K, V> {
    val capacity =
    mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,
    valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, V>(capacity),
    keySelector, valueTransform)
}

```

\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.

\* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.

\* The returned map preserves the entry iteration order of the original array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform
*/public inline

```

```

fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V>
{
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)
}

Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.
The
returned map preserves the entry
iteration order of the original array.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

public inline
fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V>
{
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)
}

Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.
If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.
The
returned map preserves the entry iteration order of the original array.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform

public inline
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K,
V>
{
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)
}

Populates and returns the [destination] mutable map with
key-value pairs,
where key is provided by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the
last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

public inline fun <T, K, M :
MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M
{
    for
(element in this)
{
        destination.put(keySelector(element), element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the
[keySelector] function applied to each element of the given
array
and value is the element itself.
If any two elements would have the same key returned by
[keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

public inline fun <K, M :
MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M
{
    for
(element in this)
{
        destination.put(keySelector(element), element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the
[keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

public inline fun <K,
M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination:
M, keySelector: (Short) -> K): M
{
    for (element in this)
{
        destination.put(keySelector(element),
element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-
value pairs,
where key is provided by the [keySelector] function applied to each element of the given array
and value is the element itself.
If any two elements would have the same key returned by [keySelector] the
last one gets added to the map.
@sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo

public inline fun <K, M :
MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M
{
    for (element
in this)
{
        destination.put(keySelector(element), element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector]
function applied
to each element of the given array
and value is the element itself.
If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.
@sample

```

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M :
MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for
(element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n *
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K,
M : MutableMap<in
K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this)
{\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function
applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M :
MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n
for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided
by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n *
If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K,
M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K):
M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n
*/\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to
elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -
> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key
is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to
elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) ->
K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements
of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n * \n * @sample

```

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) ->
K, valueTransform: (Short) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) ->
K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) ->
K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by
the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *
\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n for
(element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key

```

the last one gets added to the map.\n \* \n \* @sample

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <T, K, V, M :  
MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for  
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and  
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each  
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the  
map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform:  
(Byte) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return  
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by  
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key  
the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M :  
MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for  
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and  
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function  
applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets  
added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) ->  
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return  
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by  
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key  
the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M :  
MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for  
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would  
have the same key the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M :  
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for  
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and  
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each  
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the  
map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic  
inline  
fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->  
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return  
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by  
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key  
the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M :  
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for  
(element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates  
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each  
element of the given array.\n * \n * If any of
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two pairs would have the same key the last one gets added to the map.\n * \n * @sample
```

```
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n *^\npublic inline fun <K, V, M :
```

```

MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
public inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array
 * and values are produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original
 * array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {
    val result = LinkedHashMap<Byte, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry
 * iteration order of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {
    val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {
    val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the
 * given array and values are produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order
 * of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {
    val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned
 * map preserves the entry iteration order of the original array.
 * @sample
 * samples.collections.Collections.Transformations.associateWith
 */
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {
    val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Returns a [Map] where keys are elements from the given array and values are
 * produced by the [valueSelector] function applied to each element.
 * If any two elements are equal, the last one gets added to the map.
 * The returned map preserves the entry iteration order of the original array.
 * @sample
 */

```



```

samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n  val result
= LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n  val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal,
the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original
array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n  val result = LinkedHashMap<Char,
V>(mapCapacity(size).coerceAtMost(128)).coerceAtLeast(16))\n  return associateWithTo(result,
valueSelector)\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, in V>> Array<out
K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n  for (element in this) {\n
destination.put(element, valueSelector(element))\n  }\n  return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are

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equal, the last one overwrites the former value in the map.

```

@sample samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n
}n return destinationn}n/n/**n * Populates and returns the [destination] mutable map with key-value pairs
for each element of the given array,n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.n * n * If any two elements are equal, the last one overwrites the former value in the
map.n * n * @sample samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.n * n * If any
two elements are equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.n * n * If any two elements are
equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Boolean, in
V>> BooleanArray.associateWithTo(destination:
M, valueSelector: (Boolean) -> V): M {n for (element in this) {n destination.put(element,
valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the [destination] mutable
map with key-value pairs for each element of the given array,n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.n * n * If any two elements are equal, the last one
overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Appends all elements to
the given [destination] collection.n */npublic fun <T,
C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {n for (item in this) {n
destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the given [destination]
collection.n */npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {n for
(item in this) {n destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the
given [destination] collection.n */npublic fun <C : MutableCollection<in Short>>
ShortArray.toCollection(destination: C): C {n for (item in this) {n destination.add(item)n }n return
destinationn}n/n/**n * Appends all elements to the given [destination] collection.n */npublic fun <C :
MutableCollection<in Int>> IntArray.toCollection(destination: C): C {n for (item in this) {n
destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the given [destination]
collection.n
*/npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {n for (item in
this) {n destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the given
[destination] collection.n */npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination:

```

```

C): C { \n for (item in this) { \n destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all
elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>>
DoubleArray.toCollection(destination: C): C { \n for (item in this) { \n destination.add(item)\n } \n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C { \n for (item in this) { \n
destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements
to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharArray.toCollection(destination: C): C { \n for (item in this) { \n destination.add(item)\n } \n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet():
HashSet<T> { \n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of
all elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> { \n return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun ShortArray.toHashSet(): HashSet<Short> { \n return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun IntArray.toHashSet(): HashSet<Int> { \n return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun LongArray.toHashSet():
HashSet<Long> { \n return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new
[HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> { \n return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun DoubleArray.toHashSet(): HashSet<Double> { \n return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> { \n return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun CharArray.toHashSet(): HashSet<Char> { \n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> { \n return when (size) { \n 0 -> emptyList()\n
1 -> listOf(this[0])\n else ->
this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
ByteArray.toList(): List<Byte> { \n return when (size) { \n 0 -> emptyList()\n 1 -> listOf(this[0])\n
else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
ShortArray.toList(): List<Short> { \n return when (size) { \n 0 -> emptyList()\n 1 -> listOf(this[0])\n
else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
IntArray.toList(): List<Int> { \n return when (size) { \n 0 -> emptyList()\n 1 -> listOf(this[0])\n else ->
this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun
LongArray.toList(): List<Long> { \n return when (size) { \n 0 -> emptyList()\n 1 -> listOf(this[0])\n
else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing
all elements.\n */\npublic fun FloatArray.toList(): List<Float> { \n return when (size) { \n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun DoubleArray.toList(): List<Double> { \n return when (size) { \n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> { \n return when (size) { \n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a [List]
containing all elements.\n */\npublic fun CharArray.toList(): List<Char> { \n return when (size) { \n 0 ->
emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a new
[MutableList] filled with all elements of this array.\n */\npublic
fun <T> Array<out T>.toMutableList(): MutableList<T> { \n return ArrayList(this.asCollection())\n}\n\n/**\n *
Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun ByteArray.toMutableList():

```

```

MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList] filled with all elements of this array.
*/
public fun ShortArray.toMutableList(): MutableList<Short> {
    val list = ArrayList<Short>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList] filled with all elements of this array.
*/
public fun IntArray.toMutableList(): MutableList<Int> {
    val list = ArrayList<Int>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList] filled with all elements of this array.
*/
public fun LongArray.toMutableList(): MutableList<Long> {
    val list = ArrayList<Long>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList] filled with all elements of
this array.
*/
public fun FloatArray.toMutableList(): MutableList<Float> {
    val list =
ArrayList<Float>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList]
filled with all elements of this array.
*/
public fun DoubleArray.toMutableList(): MutableList<Double> {
    val list = ArrayList<Double>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new
[MutableList] filled with all elements of this array.
*/
public fun BooleanArray.toMutableList():
MutableList<Boolean> {
    val list = ArrayList<Boolean>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a new [MutableList] filled with all elements of this array.
*/
public fun CharArray.toMutableList(): MutableList<Char> {
    val list = ArrayList<Char>(size)
    for (item in this) list.add(item)
    return list
}
/* Returns a [Set] of all elements.
*/
/* The returned set preserves the
element iteration order of the original array.
*/
public fun <T> Array<out T>.toSet(): Set<T> {
    return when
(size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun ByteArray.toSet(): Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun ShortArray.toSet(): Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all elements.
*/
/* The returned set preserves the element iteration order of
the original array.
*/
public fun IntArray.toSet(): Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))
    }
}
/* Returns
a [Set] of all elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun LongArray.toSet(): Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 ->
setOf(this[0])
        else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))
    }
}
/* Returns a
[Set] of all elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun FloatArray.toSet(): Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all
elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun DoubleArray.toSet(): Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all
elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
    }
}
/* Returns a [Set] of all
elements.
*/
/* The returned set preserves the element iteration order of the original array.
*/
public fun CharArray.toSet(): Set<Char> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))
    }
}
/* Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.
*/
/* @sample samples.collections.Collections.Transformations.flatMap
*/
public inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}
/* Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.
*/

```

\* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* @sample samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \*

@sample samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMap\n \* \npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMapIndexed\n \* \npublic inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMapIndexed\n \* \npublic inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \* \n \* @sample

samples.collections.Collections.Transformations.flatMapIndexed\n \* \npublic inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \* \n \* @sample

and its index in the original array.\n \* \n \* @sample

samples.collections.Collections.Transformations.flatMapIndexed\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns
a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its
index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>):
```

```

List<R> {\n  return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original array, to the
given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Short) -> Iterable<R>):
C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n
destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Int) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n
destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original
array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Long) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++,
element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination:
C, transform: (index: Int, Float) -> Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list =
transform(index++, element)\n    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the original
array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

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ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results

```

of [transform] function being invoked on each element\n \* and its index in the original array, to the given [destination].\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Boolean) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c

```

```

inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++,
element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npub
lic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(index++, element)\n        destination.addAll(list)\n

```

\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n \* \npublic inline fun <T, R, C :

```

MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for
(element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n * \npublic inline fun <R, C : MutableCollection<in R>>
ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n    for (element in this) {\n        val list
= transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements
yielded from results of [transform] function being invoked on each element

```

of original array, to the given [destination].\n \* \npublic inline fun <R, C : MutableCollection<in R>>

```

ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n * \npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n
destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n * \npublic inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long)

```

```

-> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
}\n    return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n * \npublic inline fun <R, C :

```



```

MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each
 * element of original array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original
 * array, to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given
 * [destination].
 */
public inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Appends all elements yielded from results of
 * [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("flatMapSequenceTo")
public inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.
 */
/**
 * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
/**
 * @sample samples.collections.Collections.Transformations.groupBy
 */
public inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return
groupByTo(LinkedHashMap<K, MutableList<T>>(),
keySelector)
}
/**
 * Groups elements of the original array by the key returned by the given [keySelector]
 * function
 * applied to each element and returns a map where each group key is associated with a list of
 * corresponding elements.
 */
/**
 * The returned map preserves the entry iteration order of the keys produced from the
 * original array.
 */
/**
 * @sample
samples.collections.Collections.Transformations.groupBy
 */
public inline fun
<K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {
    return
groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)
}
/**
 * Groups elements of the original
 * array by the key returned by the given [keySelector] function
 * applied to each element and returns a map where
 * each group key is associated with a list of corresponding elements.
 */
/**
 * The returned map preserves the entry
 * iteration order of the keys produced from the original array.
 */
/**
 * @sample
samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {
    return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)
}
/**
 * Groups elements of the
 * original array by the key returned by the given [keySelector] function
 * applied to each element and returns a map
 * where each group key is associated with a list of corresponding elements.
 */
/**
 * The returned map preserves the
 * entry iteration order of the keys produced from the original array.
 */
/**
 * @sample
samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K>
IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {
    return groupByTo(LinkedHashMap<K,
MutableList<Int>>(), keySelector)
}
/**
 * Groups elements of the original array by the key returned by the
 * given [keySelector] function
 * applied to each element and returns a map where each group key is associated with
 * a list of corresponding elements.
 */
/**
 * The returned
 * map preserves the entry iteration order of the keys produced from the original array.
 */
/**
 * @sample
samples.collections.Collections.Transformations.groupBy
 */
public inline fun <K>
LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return

```

groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n\n}\n\n/\*\*\n \* Groups elements of the original array by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n \* \n\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and returns a map where each group key

is associated with a list of corresponding values.\n \* \n \* The returned map preserves the entry iteration order of the keys produced from the original array.\n \* \n \* @sample

```

samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n public inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n
return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n\n\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n *
by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n public inline fun <K, V>
LongArray.groupBy(keySelector:
(Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K,
MutableList<V>>(), keySelector, valueTransform)\n }\n\n\n\n * Groups values returned by the [valueTransform]
function applied to each element of the original array\n * by the key returned by the given [keySelector] function
applied to the element\n * and returns a map where each group key is associated with a list of corresponding
values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n
* \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n * \n public inline fun
<K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n\n\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list
of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
* \n public inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V):
Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n }\n\n\n\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
* \n public inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) ->
V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n }\n\n\n\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n
* \n public inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n
return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n }\n\n\n\n * Groups elements
of the original
array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n * \n public inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {\n
for (element in this) {\n
val key = keySelector(element)\n
val list = destination.getOrPut(key)
{ ArrayList<T>() }\n
list.add(element)\n
}\n
return destination\n }\n\n\n\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the

```

```

[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline
fun
<K, M : MutableMap<in K, MutableList<Byte>>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) ->
K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<Byte>() }\n list.add(element)\n }\n return destination}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline
fun <K, M : MutableMap<in K, MutableList<Short>>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination}\n\n/**\n
* Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination}\n\n/**\n
* Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>>> LongArray.groupByTo(destination: M,
keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination}\n\n/**\n
* Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*^\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>>> FloatArray.groupByTo(destination: M,
keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n
}\n return destination}\n\n/**\n * Groups elements of the original array by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <K, M : MutableMap<in K,
MutableList<Double>>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for
(element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<Double>() }\n list.add(element)\n }\n return destination}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline fun <K, M :
MutableMap<in K, MutableList<Boolean>>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) ->
K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {
ArrayList<Boolean>() }\n list.add(element)\n }\n return destination}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline
fun <K, M : MutableMap<in K, MutableList<Char>>>> CharArray.groupByTo(destination: M, keySelector: (Char) -

```

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> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key)
{ ArrayList<Char>() }\n    list.add(element)\n  }\n  return destination}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K,
valueTransform: (Byte) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return
The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K,
valueTransform: (Short) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination:
M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n  for (element in this) {\n    val key =
keySelector(element)\n    val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n  }\n  return destination}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K,
valueTransform: (Long) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n  }\n  list.add(valueTransform(element))\n  }\n  return destination}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K,
valueTransform: (Float) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return

```

```

destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n
 * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination]
map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K,
valueTransform: (Double) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return
The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination:
M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key =
keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Creates a [Grouping] source from an
array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract
a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n
*^\n@SinceKotlin("1.1")\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K):
Grouping<T, K> {\n    return object : Grouping<T, K> {\n        override fun sourceIterator(): Iterator<T> =
this@groupingBy.iterator()\n        override fun keyOf(element: T): K = keySelector(element)\n    }\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the
original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic inline fun <T,
R> Array<out T>.map(transform: (T) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic
inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic
inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in
the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic inline fun
<R> IntArray.map(transform: (Int) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic inline fun <R>
LongArray.map(transform: (Long) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n *^\npublic inline fun <R>
FloatArray.map(transform: (Float) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample samples.collections.Collections.Transformations.map
public inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample samples.collections.Collections.Transformations.map
public inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample samples.collections.Collections.Transformations.map
public inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.
public inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

```

@param [transform] function that takes the index of an element and the element itself
and returns the result of the transform applied to the element.

```

```

transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -
> R): List<R>
{\n    return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-
null results of applying the given [transform] function\n * to each element and its index in the original array.\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination:
C, transform: (index: Int, T) -> R?): C {\n    forEachIndexed { index, element -> transform(index, element)?.let {
destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element
and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out
T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n    var index = 0\n    for (item in this)\n
destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform]
function to each element and its index in the original array\n * and appends the results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n    var index = 0\n    for
(item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n    var index = 0\n    for (item in
this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C
{\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n *
and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) ->
R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++,
item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.mapIndexedTo(destination: C, transform:
(index: Int, Float) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++,
item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in
the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes
the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
DoubleArray.mapIndexedTo(destination:

```



```

C, transform: (index: Int, Double) -> R): C {\n  var index = 0\n  for (item in this)\n
destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element and its index in the original array\n * and appends the results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element
and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R,
C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n
var index = 0\n  for (item in this)\n    destination.add(transform(index++, item))\n  return
destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original array.\n */\n\n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Array<out
T>.mapNotNull(transform: (T) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n *
Applies the given [transform] function to each element in the original array\n * and appends only the non-null
results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapNotNullTo(destination: C, transform:
(T) -> R?): C {\n  forEach { element -> transform(element)?.let { destination.add(it) } }\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>>
Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun
<R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n  for (item in
this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n  for
(item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R):
C {\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends
the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n  for (item in this)\n
destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n  for (item in
this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C
{\n  for (item in this)\n    destination.add(transform(item))\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,

```

```

transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

Returns a list containing only distinct elements from the given array.

Among equal elements of the given array, only the first one will be present in the resulting list.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun <T> Array<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun ByteArray.distinct(): List<Byte> {
    return this.toMutableSet().toList()
}

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun ShortArray.distinct(): List<Short> {
    return this.toMutableSet().toList()
}

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun IntArray.distinct(): List<Int> {
    return this.toMutableSet().toList()
}

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun LongArray.distinct(): List<Long> {
    return this.toMutableSet().toList()
}

Returns a list containing only distinct elements from the given array.

The elements in the resulting list are in the same order as they were in the source array.

@sample samples.collections.Collections.Transformations.distinctAndDistinctBy

public fun FloatArray.distinct():

```

```

List<Float> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
DoubleArray.distinct(): List<Double> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct():
List<Boolean> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns
a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the
same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun CharArray.distinct():
List<Char> {\n    return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given
array with equal keys, only the first one will be present in the resulting list.\n * \n * The elements in the resulting
list are
in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\n    val set = HashSet<K>()\n    val list = ArrayList<T>()\n    for (e in
this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from
the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the
resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Byte>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n    val set =
HashSet<K>()\n    val list = ArrayList<Short>()\n    for (e in this) {\n        val key = selector(e)\n        if
(set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the
given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting
list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n    val set = HashSet<K>()\n    val list = ArrayList<Int>()\n
for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned
by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n    val set = HashSet<K>()\n    val list
= ArrayList<Long>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n
    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n    val set = HashSet<K>()\n    val list =
ArrayList<Float>()\n    for (e in this)

```

```

    {\n    val key = selector(e)\n    if (set.add(key))\n        list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n    val set = HashSet<K>()\n    val list = ArrayList<Double>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n    val set = HashSet<K>()\n    val list = ArrayList<Boolean>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n    val set = HashSet<K>()\n    val list = ArrayList<Char>()\n    for (e in this) {\n        val key = selector(e)\n        if (set.add(key))\n            list.add(e)\n    }\n    return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n    val set = this.toMutableSet()\n    set.retainAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n

```

```

val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all
elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in
one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>):
Set<Boolean> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set
containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set
preserves the element iteration order of the original array.\n
* \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n
*/\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n
set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array
and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>):
Set<Byte> {\n val set = this.toMutableSet()\n set.removeAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by
the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic
infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n
set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this
array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of
the original array.\n */\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>):
Set<Double> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set
containing all elements that are contained by this array and not contained
by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n
*/\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n val set =
this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that
are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the
element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>):
Set<Char> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a new
[MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element
iteration order of the original array.\n */\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n return
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new
[MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element
iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n return
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n return

```

```

toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n    return
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n
* \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
LongArray.toMutableSet(): MutableSet<Long> {\n    return
toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n    return
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing all
distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original
array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n    return
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order
of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n    return
toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n\n/**\n * Returns a new [MutableSet] containing
all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the
original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n    return
toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n\n/**\n * Returns a set containing
all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the
original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of
the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use
[intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n
    set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements from both
collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements
of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To
get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun
ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set
preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are
unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements
that are contained in both collections use [intersect].\n */\npublic
infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n    val set = this.toMutableSet()\n
set.addAll(other)\n    return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n
*\n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set
containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun
IntArray.union(other: Iterable<Int>): Set<Int> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set
preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are
unique are iterated in the end\n * in the order of the [other] collection.\n * \n
* \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun
LongArray.union(other: Iterable<Long>): Set<Long> {\n    val set = this.toMutableSet()\n    set.addAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set
preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are
unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements

```

```
that are contained in both collections use [intersect].\n *\npublic infix fun FloatArray.union(other: Iterable<Float>):  
Set<Float> {\n  val set = this.toMutableSet()\n  set.addAll(other)\n  return set\n}\n\n/**\n * Returns a set  
containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order  
of the original array.\n * Those elements of the [other]  
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set  
containing all elements that are contained in both collections use [intersect].\n *\npublic infix fun  
DoubleArray.union(other: Iterable<Double>): Set<Double> {\n  val set = this.toMutableSet()\n  set.addAll(other)\n  return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]  
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set  
containing all elements that are contained in both collections use [intersect].\n *\npublic infix fun  
BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n  val set = this.toMutableSet()\n  set.addAll(other)\n  return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]  
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set  
containing all elements that are contained in both collections use [intersect].\n *\npublic infix fun  
CharArray.union(other: Iterable<Char>): Set<Char> {\n  val set = this.toMutableSet()\n  set.addAll(other)\n  return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * Note that if the array  
contains no elements, the function returns `true`\n * because there are no elements in it that do not match the  
predicate.\n * See a more detailed explanation of this logic concept in ["Vacuous  
truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample  
samples.collections.Collections.Aggregates.all\n *\npublic inline fun <T> Array<out T>.all(predicate: (T) ->  
Boolean): Boolean {\n  for (element in  
this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given  
[predicate].\n * \n * Note that if the array contains no elements, the function returns  
`true`\n * because there are no elements in it that do not match the predicate.\n * See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth)  
article.\n * \n * @sample  
samples.collections.Collections.Aggregates.all\n *\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean):  
Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if  
all elements match the given [predicate].\n * \n * Note that if the array contains no elements, the function returns  
`true`\n * because there are no elements in it that do not match the predicate.\n * See a more detailed explanation  
of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth)  
article.\n * \n * @sample  
samples.collections.Collections.Aggregates.all\n *\npublic inline fun  
ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return  
false\n  return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * Note that if the  
array contains no elements, the function returns `true`\n * because there are no elements in it that do not match the  
predicate.\n * See a more detailed explanation of this logic concept in ["Vacuous  
truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample  
samples.collections.Collections.Aggregates.all\n *\npublic inline fun IntArray.all(predicate: (Int) -> Boolean):  
Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if  
all elements match the given [predicate].\n * \n * Note that if the array contains no elements, the function returns  
`true`\n * because  
there are no elements in it that do not match the predicate.\n * See a more detailed explanation of this logic  
concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample  
samples.collections.Collections.Aggregates.all\n *\npublic inline fun LongArray.all(predicate: (Long) -> Boolean):  
Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if  
all elements match the given [predicate].\n * \n * Note that if the array contains no elements, the function returns  
`true`\n * because there are no elements in it that do not match the predicate.\n * See a more detailed explanation
```

of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

```

@sample
samples.collections.Collections.Aggregates.all
*/\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean):
Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

```

Returns `true` if all elements match the given [predicate]. Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

```

@sample
samples.collections.Collections.Aggregates.all
*/\npublic inline fun DoubleArray.all(predicate: (Double) ->
Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

```

Returns `true` if all elements match the given [predicate]. Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

```

@sample
samples.collections.Collections.Aggregates.all
*/\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

```

Returns `true` if all elements match the given [predicate]. Note that if the array contains no elements, the function returns `true` because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

```

@sample
samples.collections.Collections.Aggregates.all
*/\npublic inline fun CharArray.all(predicate: (Char) -> Boolean):
Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun
<T> Array<out T>.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun ByteArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun ShortArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun IntArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun LongArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun FloatArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun DoubleArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun BooleanArray.any(): Boolean {
    return !isEmpty()
}

```

Returns `true` if array has at least one element.

```

@sample
samples.collections.Collections.Aggregates.any
*/\npublic fun CharArray.any(predicate: (Char) -> Boolean): Boolean {
    return !isEmpty()
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.anyWithPredicate
*/\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.anyWithPredicate
*/\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.anyWithPredicate
*/\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

```

Returns `true` if at least one element matches the given [predicate].



```

@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^/npublic inline fun
IntArray.any(predicate: (Int) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n
return false\n}\n/n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*^/npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n/n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^/npublic
inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n/n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^/npublic inline fun
DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n/n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^/npublic
inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n  for (element in this) if
(predicate(element)) return true\n  return false\n}\n/n/**\n * Returns `true` if at least one element matches the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n *^/npublic
inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n/n/**\n * Returns the number of elements in this array.\n
*^/n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n  return size\n}\n/n/**\n *
Returns the number of elements in this array.\n *^/n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the number of elements in this array.\n
*^/n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the
number of elements in this
array.\n *^/n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n  return size\n}\n/n/**\n *
Returns the number of elements in this array.\n *^/n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the number of elements in this array.\n
*^/n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the
number of elements in this array.\n *^/n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n
return size\n}\n/n/**\n * Returns the number of elements in this array.\n *^/n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the number of elements in this array.\n
*^/n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n  return size\n}\n/n/**\n * Returns the
number of elements matching the given [predicate].\n *^/npublic inline fun <T> Array<out T>.count(predicate:
(T) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n/n/**\n * Returns the number of elements matching the given [predicate].\n *^/npublic inline fun
ByteArray.count(predicate: (Byte) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n/n/**\n * Returns the number of elements matching the given
[predicate].\n *^/npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n  var count = 0\n  for
(element in this) if (predicate(element)) ++count\n  return count\n}\n/n/**\n * Returns the number of elements
matching the given [predicate].\n *^/npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n  var
count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n/n/**\n * Returns the
number of elements matching the given [predicate].\n *^/npublic inline fun LongArray.count(predicate:
(Long) -> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n/n/**\n * Returns the number of elements matching the given [predicate].\n *^/npublic inline fun
FloatArray.count(predicate: (Float) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n/n/**\n * Returns the number of elements matching the given
[predicate].\n *^/npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n  var count = 0\n
for (element in this) if (predicate(element)) ++count\n  return count\n}\n/n/**\n * Returns the number of elements
matching the given [predicate].\n *^/npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int

```

```

{\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns
the number of elements matching the given [predicate].\n */\npublic inline fun
CharArray.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out
T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun
<R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun
<R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n
var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the
next accumulator value.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R
{\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R,
operation: (acc: R, Float) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator =
operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns
the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n */\npublic
inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n  var accumulator = initial\n
for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n  var
accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial]

```

value if the array is empty.

```

    * @param [operation] function that takes current accumulator value and an
    element, and calculates the next accumulator value.
    */
    public inline fun <R> CharArray.fold(initial: R, operation:
    (acc: R, Char) -> R): R {
        var accumulator = initial
        for (element in this) accumulator =
        operation(accumulator, element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the specified [initial] value if the array is empty.
    * @param [operation] function that takes the index of an element, current accumulator value
    * and the element itself, and calculates the next accumulator value.
    */
    public inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int,
    acc: R, T) -> R): R {
        var index = 0
        var accumulator = initial
        for (element
        in this) accumulator = operation(index++, accumulator, element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the specified [initial] value if the array is empty.
    * @param [operation] function that takes the index of an element, current accumulator value
    * and the element itself, and calculates the next accumulator value.
    */
    public inline fun <R> ByteArray.foldIndexed(initial:
    R, operation: (index: Int, acc: R, Byte) -> R): R {
        var index = 0
        var accumulator = initial
        for (element in
        this) accumulator = operation(index++, accumulator, element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns
    the specified [initial] value if the array is empty.
    * @param [operation] function that takes the index of an
    element, current accumulator value
    * and the element itself, and calculates the next accumulator value.
    */
    public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
        var
        index = 0
        var accumulator = initial
        for (element in this) accumulator = operation(index++, accumulator,
        element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the specified [initial] value if the array is empty.
    * @param [operation] function that takes the
    index of an element, current accumulator value
    * and the element itself, and calculates the next accumulator
    value.
    */
    public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index:
    Int, acc: R, Int) -> R): R {
        var index = 0
        var accumulator = initial
        for (element in this) accumulator =
        operation(index++, accumulator, element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the specified [initial] value if the array is empty.
    * @param [operation] function that takes the index of an element, current accumulator value
    * and the element itself, and calculates the next accumulator value.
    */
    public inline fun <R> LongArray.foldIndexed(initial: R, operation:
    (index: Int, acc: R, Long) -> R): R {
        var index = 0
        var accumulator = initial
        for (element in this)
        accumulator = operation(index++, accumulator, element)
        return accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the specified
    [initial] value if the array is empty.
    * @param [operation] function that takes the index of an element, current
    accumulator value
    * and the element itself, and calculates the next accumulator value.
    */
    public inline fun <R>
    FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
        var
        index = 0
        var accumulator = initial
        for (element in this) accumulator = operation(index++, accumulator, element)
        return
        accumulator
    }

```

Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.

```

    * Returns the
    specified [initial] value if the array is empty.
    * @param [operation] function that takes the index of an
    element, current accumulator value
    * and the element itself, and calculates
    the next accumulator value.
    */
    public inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int,
    acc: R, Double) -> R): R {
        var index = 0
        var accumulator = initial
        for (element in this) accumulator =
        operation(index++, accumulator, element)
        return accumulator
    }

```

Accumulates value starting with

[initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\n

[initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R>

DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator}\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator

```

= initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from\n right to left\n * to each element with its index in the original array and current accumulator value.\n * Returns\n the specified [initial] value if the array is empty.\n * @param [operation] function that takes the index of an\n element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index,\n  get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with\n [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * Returns the specified\n [initial] value if the array is empty.\n * @param [operation] function that takes the index of an element, the\n element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun\n <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n  var index =\n  lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index,\n  accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]\n value and applying [operation] from right to left\n * to each element with its index in the original array and current\n accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation]\n function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>\n BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n  var index =\n  lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),\n  accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]\n value and applying [operation] from right to left\n * to each element with its index in the original array and current\n accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation]\n function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>\n CharArray.foldRightIndexed(initial: R, operation: (index: Int,\n  Char, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator\n  = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T>\n Array<out T>.forEach(action: (T) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs\n the given [action] on each element.\n */\npublic inline fun\n ByteArray.forEach(action: (Byte) -> Unit): Unit {\n  for\n (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun\n ShortArray.forEach(action: (Short) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs\n the given [action] on each element.\n */\npublic inline fun\n IntArray.forEach(action: (Int) -> Unit): Unit {\n  for\n (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun\n LongArray.forEach(action: (Long) -> Unit): Unit {\n  for (element\n  in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun\n FloatArray.forEach(action: (Float) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs\n the given [action] on each element.\n */\npublic inline fun\n DoubleArray.forEach(action: (Double) -> Unit): Unit {\n  for\n (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline\n fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs\n the given [action] on each element.\n */\npublic inline fun\n CharArray.forEach(action: (Char) -> Unit):\n Unit {\n  for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing\n sequential index with the element.\n * @param [action] function that takes the index of an element and the element\n itself\n * and performs the action on the element.\n */\npublic inline\n fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n  var index = 0\n  for (item in\n  this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index\n with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and

```

performs the action on the element.

```

public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Performs the given [action] on each element, providing sequential index with the element.

```

@param [action] function that takes the index of an element and the element itself

```

\* and performs the action on the element.

```

public inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    var index = 0
    for (item in this) action(index++, item)
}

```

\* Returns the largest element.

\* If any of elements is `NaN` returns `NaN`.

\* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrNull")
@Suppress("CONFLICTING_OVERLOADS")
public fun Array<out Double>.max(): Double {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

```

\* Returns the largest element.

\* If any of elements is `NaN` returns `NaN`.

\* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrNull")
@Suppress("CONFLICTING_OVERLOADS")
public fun Array<out Float>.max(): Float {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        max = maxOf(max, e)
    }
    return max
}

```

\* Returns the largest element.

\* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrNull")
@Suppress("CONFLICTING_OVERLOADS")
public fun <T : Comparable<T>> Array<out T>.max(): T {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

```

\* Returns the largest element.

\* @throws NoSuchElementException if the array is empty.

```

@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrNull")
@Suppress("CONFLICTING_OVERLOADS")
public fun ByteArray.max(): Byte {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

```

\* Returns the largest element.

\* @throws NoSuchElementException if the array is empty.

```

*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ShortArray.max(): Short {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun IntArray.max(): Int {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun LongArray.max(): Long {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun FloatArray.max(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun DoubleArray.max(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharArray.max(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n}

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    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int {\n    if (isEmpty())\n        throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)\n        return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long {\n    if (isEmpty())\n        throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)\n        return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float {\n    if (isEmpty())\n        throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)\n        return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double {\n    if (isEmpty())\n        throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)\n        return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean {\n    if (isEmpty())\n        throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)\n        return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n * \n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char {\n    if

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(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex)\n    {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample\n samples.collections.Collections.Aggregates.maxByOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element

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yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n @SinceKotlin("1.4")\n public inline fun <R :
Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var
maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n * \n @SinceKotlin("1.4")\n public inline fun
<R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty())
return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n
var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each
element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun ByteArray.maxOf(selector: (Byte) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun IntArray.maxOf(selector: (Int) -> Double): Double {\n if
(isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun LongArray.maxOf(selector: (Long) ->

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Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
            selector(this[i])
            maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun DoubleArray.maxOf(selector: (Double) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v =
            selector(this[i])
            maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun CharArray.maxOf(selector: (Char) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.maxOf(selector: (T) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

Returns the largest value among all values produced by [selector] function applied to each element in the array. If any of values produced by [selector] function is NaN, the returned result is NaN. @throws NoSuchElementException if the array is empty.

@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun ByteArray.maxOf(selector: (Byte) -> Float): Float {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return

```

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maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun ShortArray.maxOf(selector: (Short) -> Float): Float {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws\n    NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):\n    Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in\n    1..lastIndex) {\n        val v = selector(this[i])\n        maxValue\n        = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by\n * [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is\n * empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->\n    Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i\n    in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the\n * returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->\n    Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i\n    in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return\n    maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n * \n * @throws\n    NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->\n    Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i\n    in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue,\n        v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]\n * function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,\n * the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n
return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException
if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue <
v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element

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in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOf(selector: (Boolean)
-> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n
return maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -
> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) ->
Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null`

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if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -> Double): Double? {\n    if (isEmpty())\n        return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns
```



the largest value among all values produced by [selector] function  
\* applied to each element in the array or `null`  
if there are no elements.  
\* If any of values produced by [selector] function is `NaN`, the returned result is  
`NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun ShortArray.maxOrNull(selector: (Short) -> Float): Float? {\n    if (isEmpty()) return null\n    var  
    maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =  
        maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns the largest value among all values produced  
by [selector] function  
* applied to each element in the array or `null` if there are no elements.  
* If any of  
values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) ->  
Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n
```

```
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return  
    maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function  
* applied to  
each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function  
is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOrNull(selector: (Long) -  
> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns  
the largest value among all values produced by [selector] function  
* applied to each element in the array or `null`  
if there are no elements.
```

```
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -  
> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n/**\n * Returns  
the largest value among all values produced by [selector] function  
* applied to each element in the array or `null`  
if there are no elements.  
* If any of values produced by [selector] function is `NaN`, the returned result is  
`NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOrNull(selector:  
(Double) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in  
1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return  
    maxValue\n}\n/**\n * Returns the largest value among all values produced by [selector] function  
* applied to  
each element in the array or `null` if there are no elements.  
* If any of values produced by [selector] function  
is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector:  
(Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in  
1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return  
    maxValue\n}\n/**\n * Returns the largest value among all  
values produced by [selector] function  
* applied to each element in the array or `null` if there are no elements.  
*  
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) ->  
Float): Float? {\n    if (isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
```

```

val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T,\n R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {\n  if (isEmpty()) return null\n  var\n  maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n IntArray.maxOfOrNull(selector: (Int) -> R):\n R? {\n  if (isEmpty()) return null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =\n  selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n LongArray.maxOfOrNull(selector: (Long) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>\n DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n  if (isEmpty()) return null\n  var maxValue =\n  selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.maxOfOrNull(selector: (Boolean) -> R): R? {\n    if (isEmpty()) return null\n    var maxV =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxV < v) {\n
maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return
null\n    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(maxV < v) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n * Returns the largest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n
    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n    return maxV\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n    if (isEmpty())
throw NoSuchElementException()\n    var maxV = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxV, v) < 0) {\n            maxV = v\n        }\n    }\n    return
maxV\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator:
Comparator<in R>, selector:
(Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxV = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(maxV, v) < 0) {\n

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maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * \n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * \n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline
fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n    if (isEmpty())
throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    if (isEmpty()) return null\n
var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue,
v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value
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element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n    if (isEmpty()) return
null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are

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no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n return maxVale\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R?
{\n if (isEmpty()) return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n return
maxVale\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty())
return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n return maxVale\n}\n\n/**\n *
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty())
return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n return maxVale\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n
if (isEmpty()) return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n return
maxVale\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
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BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxVale = selector(this[0])\n for (i in 1..lastIndex)
{\n val v = selector(this[i])\n if (comparator.compare(maxVale, v) < 0) {\n maxVale = v\n }\n }\n
return maxVale\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n *
among all values produced by [selector] function applied to each element in the array or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return

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null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }}\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max =
maxOf(max, e)\n }}\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *
\n * If any of elements is `NaN` returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun Array<out
Float>.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n max = maxOf(max, e)\n }}\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull():
T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(max < e) max = e\n }}\n return max\n}\n\n/**\n * Returns the largest
element or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte?
{\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max <
e) max = e\n }}\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
\n */\n\n@SinceKotlin("1.4")\npublic fun ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }}\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun
IntArray.maxOrNull(): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (max < e) max = e\n }}\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic
fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex)
{\n val e = this[i]\n if (max < e) max = e\n }}\n return max\n}\n\n/**\n * Returns the largest element or
`null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max
= this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }}\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n */\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }}\n
return max\n}\n\n/**\n * Returns the largest element or `null`
if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }}\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }}\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic
fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }}\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n */\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER

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LOADS\)\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short {\n  if (isEmpty()) throw
NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according
to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int {\n  if (isEmpty()) throw
NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long {\n  if (isEmpty()) throw
NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max
= e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float {\n  if (isEmpty()) throw
NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is
empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double {\n  if (isEmpty())
throw NoSuchElementException()\n  var max =
this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean {\n  if
(isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e =
this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator].\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS\)\npublic fun CharArray.maxWith(comparator:
Comparator<in Char>): Char {\n  if (isEmpty()) throw NoSuchElementException()\n  var max = this[0]\n  for (i
in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\npublic fun <T> Array<out T>.maxWithOrNull(comparator:
Comparator<in T>): T? {\n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) {\n    val e
= this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n  var max = this[0]\n  for (i
in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n  return
max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`

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if there are no elements.\n *\/n@SinceKotlin("1.4")\npublic fun ShortArray.maxWithOrNull(comparator:
Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in
Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e =
this[i]\n if (comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic
fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max =
e\n } \n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic fun
BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max =
e\n } \n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n
*\/n@SinceKotlin("1.4")\npublic fun
CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max,
e) < 0) max = e\n } \n return max\n}\n\n/**\n * Returns the smallest element.\n * \n * If any of elements is `NaN`
returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\/n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun Array<out Double>.min(): Double {\n if (isEmpty()) throw NoSuchElementException()\n var
min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n } \n return
min\n}\n\n/**\n * Returns the smallest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\/n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun Array<out Float>.min(): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n } \n return
min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\/n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun <T : Comparable<T>> Array<out T>.min(): T {\n if (isEmpty()) throw
NoSuchElementException()\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e)
min = e\n } \n return min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\/n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun ByteArray.min(): Byte {\n if (isEmpty()) throw NoSuchElementException()\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n } \n return min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if
the array is empty.\n

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*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun ShortArray.min(): Short {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun IntArray.min(): Int {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun LongArray.min(): Long {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun FloatArray.min(): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun DoubleArray.min(): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        min = minOf(min, e)\n    }\n    return min\n}\n\n/**\n * Returns the smallest element.\n * \n * @throws NoSuchElementException if the array is empty.\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharArray.min(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T {\n    if (isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte {\n    if (isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte {\n    if (isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */

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ADS`)npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short {n  if
(isEmpty()) throw NoSuchElementException()n  var minElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return minElemn  var minValue = selector(minElem)n  for (i in 1..lastIndex) {n    val e =
this[i]n    val v = selector(e)n
    if (minValue > v) {n      minElem = e      minValue = v    }n  }n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS`)npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int {n  if (isEmpty())
throw NoSuchElementException()n  var minElem = this[0]n  val lastIndex = this.lastIndexn  if (lastIndex ==
0) return minElemn  var minValue = selector(minElem)n  for (i in 1..lastIndex) {n    val e = this[i]n    val
v = selector(e)n    if (minValue > v) {n      minElem = e      minValue = v    }n  }n  return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS`)npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long {n  if
(isEmpty()) throw NoSuchElementException()n  var minElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return minElemn  var minValue = selector(minElem)n  for (i in 1..lastIndex) {n    val e =
this[i]n    val v = selector(e)n    if (minValue > v) {n      minElem = e      minValue = v    }n  }n
}n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS`)npublic
inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float {n  if (isEmpty()) throw
NoSuchElementException()n  var minElem = this[0]n  val lastIndex = this.lastIndexn  if (lastIndex == 0)
return minElemn  var minValue = selector(minElem)n  for (i in 1..lastIndex) {n    val e = this[i]n    val v =
selector(e)n    if (minValue > v) {n      minElem = e      minValue = v    }n  }n  return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS`)npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double {n  if
(isEmpty()) throw NoSuchElementException()n
  var minElem = this[0]n  val lastIndex = this.lastIndexn  if (lastIndex == 0) return minElemn  var minValue
= selector(minElem)n  for (i in 1..lastIndex) {n    val e = this[i]n    val v = selector(e)n    if (minValue >
v) {n      minElem = e      minValue = v    }n  }n  return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS`)npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean {n  if
(isEmpty()) throw NoSuchElementException()n  var minElem = this[0]n  val lastIndex = this.lastIndexn  if
(lastIndex == 0) return minElemn  var minValue = selector(minElem)n  for (i in 1..lastIndex)
{n    val e = this[i]n    val v = selector(e)n    if (minValue > v) {n      minElem = e      minValue
= v    }n  }n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given
function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample

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samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLO
ADS")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns
the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun
<T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n if
(isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return
minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v =
selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) ->
R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem
= e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the
smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline
fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return
null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var
minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n *
Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double)
-> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if

```

```

(lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n * @SinceKotlin("1.4")\n */\npublic inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector:
(Boolean) -> R): Boolean? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex =
this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n
minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value
of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n * @SinceKotlin("1.4")\n */\npublic inline fun <R :
Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return
minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v =
selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException\n
if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n * @SinceKotlin("1.4")\n */\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->\nDouble): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n *
```

Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the\n array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) ->\nDouble): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n * \n * @throws NoSuchElementException
```

if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->\nDouble): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->\nDouble):
```

```
Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) ->\nDouble): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n *
```

Returns\n the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws\n NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->\nFloat): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n * \n * @throws NoSuchElementException
```

if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) ->
Float): Float {\n
  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex)
{\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) ->
Float): Float {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) ->
Float): Float {\n  if (isEmpty()) throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n

```

minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <T, R : Comparable<R>> Array<out T>.minOf(selector: (T) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
ByteArray.minOf(selector: (Byte) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
ShortArray.minOf(selector: (Short) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
```

NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun <R : Comparable<R>> IntArray.minOf(selector: (Int) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
```

Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
LongArray.minOf(selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return
```

minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
FloatArray.minOf(selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
```

```

minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (minValue > v) {\n         minValue = v\n     }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (minValue > v) {\n         minValue = v\n     }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (minValue > v) {\n         minValue = v\n     }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced by [selector] function\n * applied to each element in the array.\n * \n * @throws\n * NoSuchElementException if the array is empty.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue\n= selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     if (minValue > v) {\n         minValue = v\n     }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the\n * array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the\n * returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:\n(T) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in\n1..lastIndex) {\n     val v = selector(this[i])\n     minValue = minOf(minValue, v)\n }\n return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun ByteArray.minOfOrNull(selector: (Byte) -> Double): Double? {\n if (isEmpty()) return null\n var\nminValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =\nminOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -\n> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the\n * array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the\n * returned result is `NaN`.\n\n*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```



```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) ->
Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n
    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.minOrNull(selector: (Long) -> Double): Double? {\n  if (isEmpty()) return null\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    minValue =
minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) ->
Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex)
{\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:
(Double) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:
(Boolean) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector:
(Char) -> Double): Double? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in
1..lastIndex) {\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOrNull(selector:
(T) -> Float): Float? {\n  if (isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex)
{\n    val v = selector(this[i])\n    minValue = minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value among
all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/

```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOrNull(selector: (Byte) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic\ninline fun ShortArray.minOrNull(selector: (Short) -> Float): Float? {\n    if (isEmpty()) return null\n    var\nminValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =\nminOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of\n values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all\n values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`,\n the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) ->\nFloat): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the\n smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if\n there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector:\n(Double) -> Float): Float? {\n    if (isEmpty())\nreturn null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all\n values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector:\n(Boolean) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in\n1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\nminValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n each
```

element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOfOrNull(selector: (T)
-> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v
= selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOfOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each
element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOfOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> FloatArray.minOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(minValue > v) {\n minValue = v\n }\n }\n return minValue}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no
elements.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOrNull(selector: (Double) -> R): R? {\n  if (isEmpty()) return null\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n
    val v = selector(this[i])\n    if (minValue > v) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOrNull(selector: (Boolean) -> R): R? {\n  if (isEmpty()) return null\n  var minValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (minValue > v) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharArray.minOrNull(selector: (Char) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(minValue > v) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value
according to the provided [comparator]\n * among all values produced by [selector] function applied to each
element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n  if (isEmpty()) throw
NoSuchElementException()\n  var minValue = selector(this[0])\n
  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according
to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n  if (isEmpty()) throw NoSuchElementException()\n  var
minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n  if (isEmpty())
throw NoSuchElementException()\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values

```

produced by [selector] function applied to each element in the array.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:\nComparator<in R>, selector: (Long) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n
```

```
    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*\nReturns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\nfunction applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:\nComparator<in R>, selector: (Float) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
```

```
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\nminValue\n}\n\n/*\nReturns the smallest value according to the provided [comparator]\n * among all values\nproduced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:\nComparator<in R>, selector: (Double) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
```

```
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*\nReturns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\nfunction applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:\nComparator<in R>, selector: (Boolean) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
```

```
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*\nReturns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\nfunction applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:\nComparator<in
```

```
R>, selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue =\nselector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue,\nv) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/*\nReturns the smallest value\naccording to the provided [comparator]\n * among all values produced by [selector] function applied to each\nelement in the array or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out\nT>.minOfOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n    if (isEmpty()) return null\n    var
```

```
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue\n= v\n        }\n    }\n    return minValue\n}\n\n/*\nReturns the smallest value according to the provided\n[comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if\nthere are no elements.\n
```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n  if
(isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n  if (isEmpty()) return
null\n
  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or
`null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n  if (isEmpty()) return
null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n  if
(isEmpty()) return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v =
selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n  return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n  if (isEmpty())
return null\n  var minValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n

```

```

        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
        return
minValue
}

/**
 * Returns the smallest value according to the provided [comparator] among all values
 * produced by [selector] function applied to each element in the array or `null` if there are no elements.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <R>
CharArray.minOfOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {
    if (isEmpty()) return
    null
    var minValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (comparator.compare(minValue, v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.4")
public
fun Array<out Double>.minOrNull(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        min = minOf(min, e)
    }
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.4")
public fun Array<out Float>.minOrNull(): Float? {
    if (isEmpty()) return null
    var
min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        min = minOf(min, e)
    }
    return
min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun <T : Comparable<T>> Array<out T>.minOrNull(): T? {
    if (isEmpty())
return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if there
 * are no elements.
 */
@SinceKotlin("1.4")
public fun ByteArray.minOrNull(): Byte? {
    if (isEmpty()) return
null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return
min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.4")
public fun ShortArray.minOrNull(): Short? {
    if (isEmpty()) return null
    var min =
this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if
 * there are no elements.
 */
@SinceKotlin("1.4")
public fun
IntArray.minOrNull(): Int? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val
e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if
 * there are no elements.
 */
@SinceKotlin("1.4")
public fun
LongArray.minOrNull(): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val
e = this[i]
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the smallest element or `null` if
 * there are no elements.
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.4")
public fun
FloatArray.minOrNull(): Float? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val
e = this[i]
        min = minOf(min, e)
    }
    return min
}

/**
 * Returns the smallest element or `null`
 * if there are no elements.
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.4")
public fun
DoubleArray.minOrNull(): Double? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex)
{
        val e = this[i]
        min = minOf(min, e)
    }
    return min
}

/**
 * Returns the smallest element or
 * `null` if there are no
 * elements.
 */
@SinceKotlin("1.4")
public fun CharArray.minOrNull(): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return
min
}

/**
 * Returns the first element having the smallest value according to the provided [comparator].
 * @throws NoSuchElementException if the array is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minWithOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T {
    if (isEmpty()) throw
NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns the first element having the
 * smallest value according to the provided [comparator].
 * @throws NoSuchElementException if the array is
 * empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("minWithOrThrow")
@Suppress("CONFLICTING_OVER

```

LOADS\")\npublic

```
fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n        (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the\n    smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is\n    empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun ShortArray.minWith(comparator: Comparator<in Short>): Short {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n        (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the\n    smallest value according to the provided
```

```
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun IntArray.minWith(comparator: Comparator<in Int>): Int {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n        (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the\n    smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is\n    empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun LongArray.minWith(comparator: Comparator<in Long>): Long {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n        (comparator.compare(min, e) > 0) min = e\n    }\n
```

```
return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
```

```
[comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun FloatArray.minWith(comparator: Comparator<in Float>): Float {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n        (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element having the\n    smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is\n    empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun DoubleArray.minWith(comparator: Comparator<in Double>): Double {\n    if (isEmpty())\n    throw NoSuchElementException()\n    var min = this[0]\n    for\n    (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return\n    min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the array is empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean {\n    if\n    (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e =\n        this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first\n    element having the smallest value according to the provided [comparator].\n * \n * @throws\n    NoSuchElementException if the array is empty.\n
```

```
*\n * @SinceKotlin("1.7")\n * @kotlin.jvm.JvmName("minWithOrThrow")\n * @Suppress("CONFLICTING_OVER\n    LOADS")\n * public fun CharArray.minWith(comparator:
```

```
Comparator<in Char>): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return\n    min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
```

```
`null` if there are no elements.\n * \n * @SinceKotlin("1.4")\n * public fun <T> Array<out
```



```

T>.minWithOrNull(comparator: Comparator<in T>): T? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun ByteArray.minWithOrNull(comparator: Comparator<in Byte>): Byte? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>): Double? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun <T> Array<out T>.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun ByteArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun ShortArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun IntArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun LongArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun FloatArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.none\n */\n\n@public fun DoubleArray.none(): Boolean {\n  return

```

```

isEmpty()\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n    return
isEmpty()\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n    return
isEmpty()\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*/\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic
inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate:
(Double) -> Boolean):
Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if
no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action:
(Byte) -> Unit): ByteArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the
given [action] on each element and returns the array itself afterwards.\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.onEach(action: (Long) -> Unit): LongArray {\n    return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself

```

```

afterwards.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action:
(Float) -> Unit): FloatArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the
given [action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) ->
Unit): DoubleArray {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean)
-> Unit): BooleanArray {\n
    return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element
and returns the array itself afterwards.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.onEach(action: (Char) -> Unit): CharArray {\n    return apply { for (element in this) action(element)
}\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function
that takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action:
(index: Int, Byte) -> Unit): ByteArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the
given [action] on each element, providing sequential index with the element,\n * and returns the array itself
afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the
element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEachIndexed(action: (index:
Int, Int) -> Unit): IntArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action]
on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n *
@param [action] function that takes the index of an element and the element itself\n * and performs the action on
the element.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action:
(index: Int, Float) -> Unit): FloatArray {\n    return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the
given [action] on each element, providing sequential index with the element,\n * and returns the array itself
afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n    return apply {
forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Performs the given [action] on each element, providing sequential index with the element, and returns the array itself afterwards.
 * @param [action] function that takes the index of an element and the element itself and performs the action on the element.
 */

@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {
    return apply {
        forEachIndexed(action)
    }
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@sample samples.collections.Collections.Aggregates.reduce
public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@sample samples.collections.Collections.Aggregates.reduce
public inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@sample samples.collections.Collections.Aggregates.reduce
public inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@sample samples.collections.Collections.Aggregates.reduce
public inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

/** Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 */
@sample samples.collections.Collections.Aggregates.reduce
public inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {
    if (isEmpty())
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

each element.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n \* \n public inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in

```

1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead.\n * \n * It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun LongArray.reduceIndexed(operation:
(index: Int, acc: Long, Long) -> Long): Long {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns\n * \n * `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun FloatArray.reduceIndexed(operation:
(index: Int, acc: Float, Float) -> Float): Float {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(index, accumulator, this[index])\n    } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns\n * \n * `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun DoubleArray.reduceIndexed(operation:
(index: Int, acc: Double, Double) -> Double): Double {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in

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1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceIndexedOrNull] instead. It returns

`null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw
```

```
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
```

```
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead.
```

It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
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```
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
```

```
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and
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the element itself,\n \* and calculates the next accumulator value.\n \* \n \* @sample

```
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n if (isEmpty())\n return
```

```
null\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
```

```
*\n*\n@SinceKotlin("1.4")\npublic
```

```
inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
```

```
*\n*\n@SinceKotlin("1.4")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n var accumulator
```

```
= this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from
```

```
left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current
```

accumulator value and the element itself,`\n * \n * @sample`  
`samples.collections.Collections.Aggregates.reduceOrNull``\n * \n * @SinceKotlin("1.4")``\npublic inline fun`  
`IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int?` `{\n if (isEmpty())\n return`  
`null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,`  
`accumulator, this[index])\n }\n return accumulator\n}``\n\n/**\n * Accumulates value starting`  
`with the first element and applying [operation] from left to right\n * to current accumulator value and each element`  
`with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]`  
`function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the`  
`next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull`  
`* \n * @SinceKotlin("1.4")``\npublic inline fun`  
`LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long,`  
`Long) -> Long): Long?` `{\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in`  
`1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return`  
`accumulator\n}``\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to`  
`right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns`  
``null` if the array is empty.\n * \n * @param [operation]`  
`function that takes the index of an element, current`  
`accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample`  
`samples.collections.Collections.Aggregates.reduceOrNull``\n * \n * @SinceKotlin("1.4")``\npublic inline fun`  
`FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float?` `{\n if (isEmpty())\n`  
`return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,`  
`accumulator, this[index])\n }\n return accumulator\n}``\n\n/**\n * Accumulates value starting with the first`  
`element and applying [operation] from left to right\n * to current accumulator value and each element with its index`  
`in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]`  
`function that takes the`  
`index of an element, current accumulator value and the element itself,\n * and calculates`  
`the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull`  
`* \n * @SinceKotlin("1.4")``\npublic inline fun`  
`DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:`  
`Double, Double) -> Double): Double?` `{\n if (isEmpty())\n return null\n var accumulator = this[0]\n for`  
`(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return`  
`accumulator\n}``\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to`  
`right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if`  
`the array is empty.\n * \n * @param [operation]`  
`function that takes the index of an element, current accumulator`  
`value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample`  
`samples.collections.Collections.Aggregates.reduceOrNull``\n * \n * @SinceKotlin("1.4")``\npublic inline fun`  
`BooleanArray.reduceIndexedOrNull(operation:`  
`(index: Int, acc: Boolean, Boolean) -> Boolean): Boolean?` `{\n if (isEmpty())\n return null\n var`  
`accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator,`  
`this[index])\n }\n return accumulator\n}``\n\n/**\n * Accumulates value starting with the first element and`  
`applying [operation] from left to right\n * to current accumulator value and each element with its index in the`  
`original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]`  
`function that takes the index`  
`of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample`  
`samples.collections.Collections.Aggregates.reduceOrNull``\n * \n * @SinceKotlin("1.4")``\npublic inline`  
`fun`  
`CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char?` `{\n if (isEmpty())\n`  
`return null\n var accumulator = this[0]\n for`  
`(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return`  
`accumulator\n}``\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to`  
`right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *`  
`@param [operation]`  
`function that takes current accumulator value and an element,\n * and calculates the next`  
`accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull`  
`* \n * @SinceKotlin("1.4")``\n * @WasExperimental(ExperimentalStdlibApi::class)``\npublic inline fun <S, T : S>`



```

Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n  if (isEmpty())\n    return null\n  var\n  accumulator: S = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n from\n left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n  if (isEmpty())\n    return null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates\n the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n  if (isEmpty())\n    return null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n IntArray.reduceOrNull(operation:\n (acc: Int, Int) -> Int): Int? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in\n  1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current\n accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]\n function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n  if (isEmpty())\n    return null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from\n left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]\n function that takes current accumulator value and an element,\n * and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n  if (isEmpty())\n    return null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is\n empty.\n * \n * @param [operation]\n function that takes current accumulator value and an element,\n * and\n calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n *\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public inline fun\n DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n  if (isEmpty())\n    return\n null\n  var\n  accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator,\n this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and

```

applying [operation] from left to right  
 \* to current accumulator value and each element.  
 \* Returns `null` if the array is empty.  
 \* @param [operation] function that takes current accumulator value and an element,  
 \* and calculates the next accumulator value.  
 \* @sample  
 samples.collections.Collections.Aggregates.reduceOrNull

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun  
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n    if (isEmpty())\n    return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the  
first element and applying [operation] from left to right  
* to current accumulator value and each element.  
* Returns `null` if the array is empty.  
* @param [operation] function that takes current accumulator value and  
an element,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun  
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n    if (isEmpty())\n    return  
null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator,  
this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and  
applying [operation] from right to left  
* to each element and current accumulator value.  
* Throws an  
exception if this array is empty. If the array can be empty in an expected way,  
* please use [reduceRightOrNull]  
instead. It returns `null` when its receiver is empty.  
* @param [operation] function that takes an element and  
current accumulator value,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S> Array<out  
T>.reduceRight(operation: (T, acc: S) -> S): S {\n    var index = lastIndex\n    if (index < 0) throw  
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator: S = get(index--)\n    while  
(index >= 0) {\n
```

```
        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates  
value starting with the last element and applying [operation] from right to left  
* to each element and current  
accumulator value.  
* Throws an exception if this array is empty. If the array can be empty in an expected  
way,  
* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.  
* @param  
[operation] function that takes an element and current accumulator value,  
* and calculates the next accumulator  
value.  
* @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun  
ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n    var index = lastIndex\n    if (index < 0)  
throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return  
accumulator\n}\n\n/**\n
```

```
* Accumulates value starting with the last element and applying [operation] from right to left  
* to each element  
and current accumulator value.  
* Throws an exception if this array is empty. If the array can be empty in an  
expected way,  
* please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.  
* @param  
[operation] function that takes an element and current accumulator value,  
* and calculates the next  
accumulator value.  
* @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline  
fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n    var index = lastIndex\n    if (index  
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return  
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying  
[operation] from right to left  
* to each element and current accumulator value.  
* Throws an exception if  
this array is empty. If the array can be empty in an expected way,  
* please use [reduceRightOrNull] instead. It  
returns `null` when its receiver is empty.  
* @param [operation] function that takes an element and current  
accumulator value,  
* and calculates the next accumulator value.  
* @sample  
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun IntArray.reduceRight(operation:
```

```

(Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while
    (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

* Throws an exception if this array is empty. If the array can be empty in an expected way,
please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun LongArray.reduceRight(operation:
(Long, acc: Long) -> Long): Long {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while
    (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

* Throws an exception if this array is empty. If the array can be empty in
an expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline
fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

* Throws an exception if this array is empty. If the array can be empty in an expected way,
please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.
@param [operation] function that takes an element and current accumulator
value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun DoubleArray.reduceRight(operation:
(Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while
    (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

* Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that
takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
    get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

* Throws an exception if this array is empty. If the array can be empty in an expected way,
please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates
the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if
    (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
    get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to

```

```

left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n    var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator =
get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n       
--index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n
* Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an
element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n
* @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic
inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n
* Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun
LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n    var index =
lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var
accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),

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accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead.

It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please

use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the

array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n

\* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRight\n \*\npublic inline fun

CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with the last element and applying [operation] from right to left\n \* to each element with its index in the original array and current accumulator value.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n \*\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation:

(index: Int, T, acc: S) -> S): S? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }

```

    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation]
from right to left to each element with its index in the original array and current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that takes the
index of an element, the element itself and current accumulator value,
and calculates the next accumulator
value.
@sample samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte,
acc: Byte) -> Byte): Byte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from
right to left to each element with its index in the original array and current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that takes the index of an element, the element
itself and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation] from right to left
to each element with
its index in the original array and current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that takes the index of an element, the element itself and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun IntArray.reduceRightIndexedOrNull(operation:
(index: Int, Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator =
get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation]
from right to left to each element with its index in the original array and current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that takes the index of an element, the
element itself and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {
    var index =
lastIndex
    if (index < 0) return null
    var
accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index),
accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last
element and applying [operation] from right to left
to each element with its index in the original array and
current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that
takes the index of an element, the element itself and
current accumulator value,
and calculates the next
accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float,
acc: Float) -> Float): Float? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator =
get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/** Accumulates value starting with the last element and applying [operation]
from right to left to each element with its index in the original array and current accumulator value.
Returns `null` if the array is empty.
@param [operation] function that takes the index of an element, the
element itself and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.4")
public inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
public inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
public inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {
    var index =
lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <S, T : S>
Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {
    var index = lastIndex
    if (index < 0)
return null
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--),
accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
ByteArray.reduceRightOrNull(operation:
(Byte, acc: Byte) -> Byte): Byte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator =
get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--),
accumulator)
    }
    return
accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {
    var index = lastIndex
    if
(index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator
= operation(get(index--),
accumulator)
    }
    return accumulator
}

```

Accumulates value starting with the last element and applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample

```

samples.collections.Collections.Aggregates.reduceRightOrNull
*^@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun
IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {
    var index = lastIndex
    if (index < 0)
return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--),
accumulator)
    }
    return accumulator
}

```

applying [operation] from right to left to each element and current accumulator value. Returns `null` if the array is empty. @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.reduceRightOrNull

```

*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {n accumulator =
operation(get(index--), accumulator)\n }n return accumulator\n}\n\n/**n * Accumulates value starting with the
last element and applying [operation] from right to left to each element and current accumulator value.n * n *
Returns `null` if the array is empty.n * n * @param [operation] function that takes an element and current
accumulator value,n * and calculates the next accumulator
value.n * n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {n accumulator =
operation(get(index--), accumulator)\n }n return accumulator\n}\n\n/**n * Accumulates value starting with the
last element and applying [operation] from right to left to each element and current accumulator value.n * n *
Returns `null` if the array is empty.n * n * @param [operation] function that takes an element and current
accumulator value,n * and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun
DoubleArray.reduceRightOrNull(operation:
(Double, acc: Double) -> Double): Double? {n var index = lastIndex\n if (index < 0) return null\n var
accumulator = get(index--)\n while (index >= 0) {n accumulator = operation(get(index--), accumulator)\n
}\n return accumulator\n}\n\n/**n * Accumulates value starting with the last element and applying [operation]
from right to left to each element and current accumulator value.n * n * Returns `null` if the array is empty.n *
n * @param [operation] function that takes an element and current accumulator value,n * and calculates the next
accumulator value.n * n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while
(index >= 0) {n accumulator = operation(get(index--), accumulator)\n }n return accumulator\n}\n\n/**n *
Accumulates value starting with the last element and applying [operation] from right to left to each element and
current accumulator value.n * n * Returns `null` if the array is empty.n * n * @param [operation] function that
takes an element and current accumulator value,n * and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {n var index = lastIndex\n if (index
< 0) return null\n var accumulator = get(index--)\n while (index >= 0) {n accumulator =
operation(get(index--), accumulator)\n }n return accumulator\n}\n\n/**n * Returns a list containing successive
accumulation values generated by applying
[operation] from left to right to each element and current accumulator value that starts with [initial] value.n * n
* Note that `acc` value passed to [operation] function should not be mutated;n * otherwise it would affect the
previous value in resulting list.n * n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\/n@SinceKotlin("1.4")npublic inline fun <T, R>
Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for

```



(element in this) {  
accumulator = operation(accumulator, element)  
result.add(accumulator)  
}  
return result  
} \* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. \* Note that `acc` value passed to [operation] function should not be mutated; \* otherwise it would affect the previous value in resulting list. \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \* @sample samples.collections.Collections.Aggregates.runningFold

```
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <R> ByteArray.runningFold(initial: R,
operation: (acc: R, Byte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. \* Note that `acc` value passed to [operation] function should not be mutated; \* otherwise it would affect the previous value in resulting list. \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \* @sample samples.collections.Collections.Aggregates.runningFold

```
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <R> ShortArray.runningFold(initial: R,
operation: (acc: R, Short) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. \* Note that `acc` value passed to [operation] function should not be mutated; \* otherwise it would affect the previous value in resulting list. \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \* @sample samples.collections.Collections.Aggregates.runningFold

```
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <R> IntArray.runningFold(initial: R,
operation: (acc: R, Int) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. \* Note that `acc` value passed to [operation] function should not be mutated; \* otherwise it would affect the previous value in resulting list. \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \* @sample samples.collections.Collections.Aggregates.runningFold

```
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <R> LongArray.runningFold(initial: R,
operation: (acc: R, Long) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

\* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value. \* Note that `acc` value passed to [operation] function should not be mutated; \* otherwise it would affect the previous value in resulting list. \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \* @sample samples.collections.Collections.Aggregates.runningFold

```
@SinceKotlin("1.4")@kotlin.internal.InlineOnly
public inline fun <R> FloatArray.runningFold(initial: R,
operation: (acc: R, Float) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator =
        operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}
```

\* Returns a list containing successive accumulation values generated by applying

[operation] from left to right to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/*\nReturns a list containing successive accumulation values generated by
```

applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/*\nReturns a list containing successive accumulation values generated
```

by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.  
@sample

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/*\nReturns a list containing successive accumulation values
```

generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/*\nReturns a list containing successive accumulation values generated by applying [operation]
```

from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.  
Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.  
@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.  
@sample

`samples.collections.Collections.Aggregates.runningFold`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
```

```
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n
```

```

for (index in indices) {
    accumulator
    = operation(index, accumulator, this[index])
    result.add(accumulator)
}
return result

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.runningFold

```

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun <R>
ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {
    if (isEmpty())
    return listOf(initial)
    val result = ArrayList<R>(size
    + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator =
        operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.runningFold

```

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun <R>
IntArray.runningFoldIndexed(initial: R, operation: (index: Int,
acc: R, Int) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply {
    add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index,
        accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.runningFold

```

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public
inline fun <R> LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator
    = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample

```

samples.collections.Collections.Aggregates.runningFold

```

```

* \n @SinceKotlin("1.4") \n @kotlin.internal.InlineOnly \n public inline fun <R>
FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {
    if (isEmpty())
    return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function

should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element,

current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect
the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n  if (isEmpty())
return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and the element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n  if (isEmpty()) return emptyList()\n  var
accumulator: S = this[0]\n  val result = ArrayList<S>(size).apply { add(accumulator) }\n  for (index in 1 until
size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:
(acc: Byte, Byte) -> Byte): List<Byte> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val
result = ArrayList<Byte>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list
```

containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

```

*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:
(acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:
Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function
that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation:
(acc: Float, Float) -> Float): List<Float> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation:
(acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return emptyList()\n var accumulator =
this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation:

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(acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n  if (isEmpty()) return emptyList()\n  var accumulator =
this[0]\n  val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n
accumulator = operation(accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val
result = ArrayList<Char>(size).apply { add(accumulator) }\n  for (index in 1 until size) {\n    accumulator =
operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list
containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\npublic inline fun <S, T :
S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n  if (isEmpty()) return
emptyList()\n  var accumulator: S = this[0]\n  val result = ArrayList<S>(size).apply { add(accumulator) }\n  for
(index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
}\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
}\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Short>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original array and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n

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*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {n  if (isEmpty()) return
emptyList()n  var accumulator = this[0]n  val result = ArrayList<Int>(size).apply { add(accumulator) }n  for
(index in 1 until size) {n    accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n  }n  return resultn}n/n/**n * Returns a list containing successive accumulation
values
generated by applying [operation] from left to rightn * to each element, its index in the original array and current
accumulator value that starts with the first element of this array.n * n * @param [operation] function that takes the
index of an element, current accumulator valuen * and the element itself, and calculates the next accumulator
value.n * n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {n  if
(isEmpty()) return emptyList()n  var accumulator = this[0]n  val result = ArrayList<Long>(size).apply {
add(accumulator) }n  for (index in 1 until size) {n    accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n  }n  return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation]
from left to rightn * to each element, its index in the original array and current accumulator value that starts with
the first element of this array.n * n * @param [operation] function that takes the index of an element, current
accumulator valuen * and the element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {n  if
(isEmpty()) return emptyList()n  var accumulator = this[0]n  val result = ArrayList<Float>(size).apply {
add(accumulator) }n  for (index in 1 until size) {n    accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n  }n  return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn
* to each element, its index in the original array and current accumulator value that starts with the first element of
this array.n * n * @param [operation] function that takes the index of an element, current accumulator valuen *
and the element itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {n  if
(isEmpty()) return emptyList()n  var accumulator = this[0]n  val result = ArrayList<Double>(size).apply {
add(accumulator) }n  for (index in 1 until size) {n    accumulator = operation(index, accumulator, this[index])n
result.add(accumulator)n  }n  return resultn}n/n/**n * Returns a list containing successive accumulation
values generated by applying [operation] from left to rightn * to each element,
its index in the original array and current accumulator value that starts with the first element of this array.n * n *
@param [operation] function that takes the index of an element, current accumulator valuen * and the element
itself, and calculates the next accumulator value.n * n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
{n  if (isEmpty()) return emptyList()n  var accumulator = this[0]n  val result =
ArrayList<Boolean>(size).apply { add(accumulator) }n  for (index in 1 until size) {n    accumulator =
operation(index, accumulator, this[index])n    result.add(accumulator)n  }n  return resultn}n/n/**n *
Returns a list containing successive accumulation values generated by applying [operation] from left to rightn * to
each element, its index in

```

the original array and current accumulator value that starts with the first element of this array.

`@param [operation]` function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

`@sample`  
`samples.collections.Collections.Aggregates.runningReduce`

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n  if (isEmpty())
return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<Char>(size).apply { add(accumulator)
}\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with
[initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it
would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n  return
```



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runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n
 * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n    return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *
to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n
 * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n
 * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current

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accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with
[initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it
would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n
* otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function
that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c

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inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c
inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values
generated by applying [operation] from left to right\n * to each element, its index in the original array and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should
not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c
inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) ->
R): List<R> {\n
return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun <T>
Array<out T>.sumBy(selector: (T) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun
ByteArray.sumBy(selector: (Byte) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element
in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun
ShortArray.sumBy(selector: (Short) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun
IntArray.sumBy(selector: (Int) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline
fun LongArray.sumBy(selector: (Long) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun
FloatArray.sumBy(selector: (Float) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n * \n * @Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * @public inline fun
DoubleArray.sumBy(selector: (Double) -> Int): Int {\n
var sum: Int = 0\n
for (element in this) {\n
sum +=
selector(element)\n
}\n
return sum\n}\n\n/**\n

```

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* Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharArray.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
ShortArray.sumByDouble(selector:
(Short) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
IntArray.sumByDouble(selector: (Int) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)\n"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
LongArray.sumByDouble(selector: (Long) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n *\n@Deprecated("Use sumOf instead.")\n
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FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
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CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by

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[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
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IntArray.sumOf(selector: (Int) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in this)
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[selector] function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun LongArray.sumOf(selector: (Long) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
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FloatArray.sumOf(selector: (Float) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.sumOf(selector: (Double) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
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BooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
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CharArray.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>

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Array<out T>.sumOf(selector: (T) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sumOf(selector: (Int) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun FloatArray.sumOf(selector: (Float) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
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ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
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CharArray.sumOf(selector: (Char) -> Int): Int {\n  var sum: Int = 0.toInt()\n  for (element in this) {\n    sum +=
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applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n  var sum: Long = 0.toLong()\n  for
(element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n

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ByteArray.sumOf(selector: (Byte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]  
function applied to each element in the array.\n
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inline fun ShortArray.sumOf(selector: (Short) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in  
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by  
[selector] function applied to each element in the array.\n
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FloatArray.sumOf(selector: (Float) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]  
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic  
inline fun CharArray.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in  
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by  
[selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType  
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return  
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the  
array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
```

```

s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n  var sum: UInt = 0.toUInt()\n  for (element in
this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n  var
sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n  var sum: UInt = 0.toUInt()\n  for (element in this)
{\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n  var
sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n *
Returns the sum
of all values produced by [selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n  var
sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n  for (element
in this) {\n    sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt
{\n  var sum: UInt = 0.toUInt()\n  for (element in this) {\n    sum += selector(element)\n  }\n  return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline
fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n  var sum: UInt = 0.toUInt()\n  for (element in this) {\n
sum += selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):
ULong {\n  var sum: ULong = 0.toULong()\n  for (element in this) {\n    sum += selector(element)\n  }\n
}

```



```

return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element
in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector:

```

```

(Char) -> ULong): ULong {
    var sum: ULong = 0.toULong()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

* Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.
*/
public fun <T : Any> Array<T>.requireNoNulls(): Array<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
}

@Suppress("UNCHECKED_CAST")
return this as Array<T>
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val first = ArrayList<T>()
    val second = ArrayList<T>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {
    val first = ArrayList<Byte>()
    val second = ArrayList<Byte>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {
    val first = ArrayList<Short>()
    val second = ArrayList<Short>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {
    val first = ArrayList<Int>()
    val second = ArrayList<Int>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {
    val first = ArrayList<Long>()
    val second = ArrayList<Long>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {
    val first = ArrayList<Float>()
    val second = ArrayList<Float>()
    for (element in this) {
        if (predicate(element)) {
            first.add(element)
        } else {
            second.add(element)
        }
    }
    return Pair(first, second)
}

* Splits the original array into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.
*/
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives

*
public

```

```

inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n  val
first = ArrayList<Double>()\n  val second = ArrayList<Double>()\n  for (element in this) {\n    if
(predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\n\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>,\nList<Boolean>> {\n  val first = ArrayList<Boolean>()\n  val second = ArrayList<Boolean>()\n  for (element in
this) {\n    if (predicate(element)) {\n      first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n
return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n
*/\n\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n  val first =
ArrayList<Char>()\n  val second = ArrayList<Char>()\n  for (element in this) {\n    if (predicate(element)) {\n
first.add(element)\n    } else {\n      second.add(element)\n    }\n  }\n  return Pair(first,
second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n  return zip(other) { t1,
t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with
the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R> ByteArray.zip(other: Array<out R>):
List<Pair<Byte, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R>
ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
 * Returns a list of pairs built from the elements of `this` array and the [other]
array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R> IntArray.zip(other: Array<out R>):
List<Pair<Int, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R>
LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R> FloatArray.zip(other: Array<out
R>): List<Pair<Float,
R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`
array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic infix fun <R> DoubleArray.zip(other:
Array<out R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*/\n\npublic
infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n  return zip(other) { t1, t2 -> t1
to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest

```

```

collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n\npublic infix fun <R>
CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline
fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n    val size =
minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i],
other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the
[other] array with the same index\n * using the provided [transform]
function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n
    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n    val size = minOf(size, other.size)\n
val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n}\n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n\npublic

```

```

inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <T, R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of values built from the elements of `this` array and the [other] collection with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if

```

```

(i >= arraySize) break\n    list.add(transform(this[i++], element))\n } \n return list\n}\n\n/**\n * Returns a list
of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n return list\n}\n\n/**\n * Returns a
list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n
if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n    val
arraySize = size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i =
0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with
the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n    val arraySize = size\n    val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n
for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    } \n
return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with

```

the same index\n \* using the provided [transform] function applied to each pair of elements.\n \* The returned list has length of the shortest collection.\n \* \n \* @sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n public inline fun <R, V>
CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n\n\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n public
infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n\n\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun ShortArray.zip(other: ShortArray):
List<Pair<Short, Short>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun
IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun LongArray.zip(other: LongArray):
List<Pair<Long, Long>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun
FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\n public infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n  return zip(other) {
t1, t2 -> t1 to t2 }\n}\n\n\n\n * Returns a list of pairs built from the elements of `this` array and the [other] array
with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun BooleanArray.zip(other: BooleanArray):
List<Pair<Boolean, Boolean>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \n public infix fun
CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n\n\n *
Returns a list of values built from the elements of `this` array and the [other]
array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The
returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \n public inline fun <V> ByteArray.zip(other:
ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list =
ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return
list\n}\n\n\n\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n public inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n  val
size = minOf(size,
other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n
}\n  return list\n}\n\n\n\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned

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list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V> IntArray.zip(other:
IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n    val size = minOf(size, other.size)\n    val list =
ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list
has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V):
List<V> {\n    val size = minOf(size, other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <V>
CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
    }\n    return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator]
and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <T, A : Appendable> Array<out
T>.joinTo(buffer: A, separator: CharSequence = '|', prefix: CharSequence = "\", postfix: CharSequence = "\",
limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n
        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n        } else break\n    }\n    if
(limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n *
Appends the
string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample

```



```

samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
ByteArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n
if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n
else\n buffer.append(element.toString())\n
} else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n
return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A :
Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n
if (transform != null)\n buffer.append(transform(element))\n else\n
buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit)
buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable> IntArray.joinTo(buffer:
A, separator: CharSequence = "\", \", prefix: CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1,
truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): A {\n buffer.append(prefix)\n
var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count
<= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n
buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit)
buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *\npublic fun <A : Appendable>
LongArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix: CharSequence = "\"",
postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) ->
CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count
> 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n
buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n
*\npublic fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \", prefix:
CharSequence = "\"", postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = \"...\", transform:
((Float) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n
if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n
buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else
break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return

```



\* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n \* elements will be appended, followed by the [truncated] string (which defaults to "...").n \* n \* @sample samples.collections.Collections.Transformations.joinToStringn

```
*^public fun ShortArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun IntArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun LongArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun FloatArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun DoubleArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {n    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.n * n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]n * elements will be appended, followed by the [truncated] string (which defaults to "...").n * n * @sample samples.collections.Collections.Transformations.joinToStringn *^public fun CharArray.joinToString(separator: CharSequence =
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\", \", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\",
transform: ((Char) -> CharSequence)? = null): String {\n    return joinTo(StringBuilder(), separator, prefix, postfix,
limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array
returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n    if
(isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n */\npublic fun ByteArray.asIterable():
Iterable<Byte> {\n    if (isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
ShortArray.asIterable(): Iterable<Short> {\n    if (isEmpty()) return
emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n    if
(isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable():
Iterable<Long> {\n    if (isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
FloatArray.asIterable(): Iterable<Float> {\n    if (isEmpty()) return emptyList()\n    return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double>
{\n    if (isEmpty()) return emptyList()\n    return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable]
instance that wraps the original array returning its elements when being iterated.\n */\npublic fun
BooleanArray.asIterable(): Iterable<Boolean> {\n    if (isEmpty()) return emptyList()\n    return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n    if (isEmpty()) return emptyList()\n
return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning
its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n
*/\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n    if (isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps
the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence():
Sequence<Short> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence():
Sequence<Int> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps
the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence():
Sequence<Long> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence():
Sequence<Float> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n    if (isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that

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wraps the original array returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n *^npublic fun BooleanArray.asSequence():
Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n *^npublic fun CharArray.asSequence():
Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfByte")\npublic fun
Array<out Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average
value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Array<out
Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Array<out
Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Array<out
Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum +=
element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an
average value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Array<out Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun
Array<out Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this)
{\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average value of elements in the array.\n *^npublic fun ByteArray.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n *^npublic fun ShortArray.average(): Double {\n var sum: Double =
0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n *^npublic
fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the array.\n *^npublic fun LongArray.average(): Double {\n var sum: Double =
0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n *^npublic
fun FloatArray.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if
(count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*^npublic fun DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in
this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*^n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Array<out Byte>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
array.\n *^n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Array<out Short>.sum(): Int {\n var sum: Int =
0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all
elements in the

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array.\n *^@kotlin.jvm.JvmName("\sumOfInt")\npublic fun Array<out Int>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^@kotlin.jvm.JvmName("\sumOfLong")\npublic fun Array<out Long>.sum(): Long {\n  var sum: Long = 0L\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^@kotlin.jvm.JvmName("\sumOfFloat")\npublic fun Array<out Float>.sum(): Float {\n  var sum: Float = 0.0f\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^@kotlin.jvm.JvmName("\sumOfDouble")\npublic fun Array<out Double>.sum(): Double {\n  var sum: Double = 0.0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun ByteArray.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun ShortArray.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun IntArray.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun LongArray.sum(): Long {\n  var sum: Long = 0L\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun FloatArray.sum(): Float {\n  var sum: Float = 0.0f\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n/*\n * Returns the sum of all elements in the array.\n *^public fun DoubleArray.sum(): Double {\n  var sum: Double = 0.0\n  for (element in this) {\n    sum += element\n  }\n  return sum\n}\n\n", "/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n*\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/*\n * Returns the first element.\n * \n * @throws NoSuchElementException if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun IntProgression.first(): Int {\n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return this.first\n}\n\n/*\n * Returns the first element.\n * \n * @throws NoSuchElementException\n  if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun LongProgression.first(): Long {\n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return this.first\n}\n\n/*\n * Returns the first element.\n * \n * @throws NoSuchElementException if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun CharProgression.first(): Char {\n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return this.first\n}\n\n/*\n * Returns the first element, or `null` if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun IntProgression.firstOrNull(): Int? {\n  return if (isEmpty()) null else this.first\n}\n\n/*\n * Returns the first element, or `null` if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun LongProgression.firstOrNull(): Long? {\n  return if (isEmpty()) null else this.first\n}\n\n/*\n * Returns the first element, or `null` if the progression is empty.\n\n*\n\n@SinceKotlin("1.7")\npublic fun CharProgression.firstOrNull(): Char? {\n  return if (isEmpty()) null else this.first\n}\n\n/*\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n\n*\n\n@SinceKotlin("1.7")\npublic fun IntProgression.last(): Int {\n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return this.last\n}\n\n/*\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n\n*\n\n@SinceKotlin("1.7")\npublic fun LongProgression.last(): Long {\n  if (isEmpty())\n    throw NoSuchElementException("Progression $this is empty.")\n  return this.last\n}\n\n/*\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
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*^@SinceKotlin("1.7")\npublic fun CharProgression.last(): Char {\n  if (isEmpty())\n    throw\n    NoSuchElementException("Progression $this is empty.")\n  return this.last()\n}\n\n/**\n * Returns the last element,\n or `null` if the progression is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\n*^@SinceKotlin("1.7")\npublic fun IntProgression.lastOrNull(): Int? {\n  return if (isEmpty()) null else\n  this.last()\n}\n\n/**\n * Returns the last element, or `null` if the progression is empty.\n */\n * @sample\n samples.collections.Collections.Elements.last\n\n*^@SinceKotlin("1.7")\npublic fun\n LongProgression.lastOrNull(): Long? {\n  return if (isEmpty()) null else this.last()\n}\n\n/**\n * Returns the last\n element, or `null` if the progression is empty.\n */\n * @sample samples.collections.Collections.Elements.last\n\n*^@SinceKotlin("1.7")\npublic fun CharProgression.lastOrNull(): Char? {\n  return if (isEmpty()) null else\n  this.last()\n}\n\n/**\n * Returns a random element from this range.\n */\n * @throws IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n  return\n  random(Random)\n}\n\n/**\n * Returns a random element from this range.\n */\n * @throws\n IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic\n inline fun LongRange.random(): Long {\n  return random(Random)\n}\n\n/**\n * Returns a random element from\n this range.\n */\n * @throws IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n  return\n  random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of\n randomness.\n */\n * @throws IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int\n {\n  try {\n    return random.nextInt(this)\n  } catch (e: IllegalArgumentException) {\n    throw\n    NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element from this range using the\n specified source of randomness.\n */\n * @throws IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n  try {\n    return\n    random.nextLong(this)\n  } catch (e: IllegalArgumentException) {\n    throw\n    NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element from this range using the\n specified source of randomness.\n */\n * @throws IllegalArgumentException if this range is empty.\n\n*^@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n  try {\n    return\n    random.nextInt(first.code, last.code + 1).toChar()\n  } catch (e: IllegalArgumentException) {\n    throw\n    NoSuchElementException(e.message)\n  }\n}\n\n/**\n * Returns a random element\n from this range, or `null` if this range is empty.\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli\n c inline fun IntRange.randomOrNull(): Int? {\n  return randomOrNull(Random)\n}\n\n/**\n * Returns a random\n element from this range, or `null` if this range is empty.\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli\n c inline fun LongRange.randomOrNull(): Long? {\n  return randomOrNull(Random)\n}\n\n/**\n * Returns a\n random element from this range, or `null` if this range is empty.\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli\n c inline fun CharRange.randomOrNull(): Char? {\n  return randomOrNull(Random)\n}\n\n/**\n * Returns a\n random element from this range using the specified source of randomness, or `null` if this range is empty.\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic\n fun IntRange.randomOrNull(random: Random): Int? {\n  if (isEmpty())\n    return null\n  return\n  random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of\n randomness, or `null` if this range is empty.\n\n*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\n LongRange.randomOrNull(random: Random): Long? {\n  if (isEmpty())\n    return null\n  return\n  random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of\n randomness, or `null` if this range is empty.\n\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharRange.randomOrNull(random: Random): Char? {\n    if (isEmpty())\n        return null\n    return
random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified
[element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline operator fun IntRange.contains(element: Int?): Boolean {\n    return element != null &&
contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns
`false` if the [element] is `null`.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator
fun LongRange.contains(element: Long?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n *
Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is
`null`.\n *\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun
CharRange.contains(element: Char?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\n\npublic
operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n
    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("longRangeContains")\n\npublic operator fun ClosedRange<Long>.contains(value:
Byte): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("shortRangeContains")\n\npublic operator fun
ClosedRange<Short>.contains(value: Byte): Boolean {\n    return contains(value.toShort())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")\n@kotlin.jvm.JvmName("doubleRangeContains")\n\npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value]
belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments
has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3",
errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("floatRangeContains")\n\npublic operator fun
ClosedRange<Float>.contains(value: Byte): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("intRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdli
bApi::class)\n\npublic operator fun OpenEndRange<Int>.contains(value: Byte): Boolean {\n    return
contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("longRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStd
libApi::class)\n\npublic operator fun OpenEndRange<Long>.contains(value: Byte): Boolean {\n    return
contains(value.toLong())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStd
libApi::class)\n\npublic operator fun OpenEndRange<Short>.contains(value: Byte): Boolean {\n    return
contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.internal.InlineOnly\n\npublic inline operator fun IntRange.contains(value: Byte): Boolean {\n    return
(this as ClosedRange<Int>).contains(value)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.internal.InlineOnly\n\npublic inline operator fun LongRange.contains(value: Byte): Boolean {\n    return
(this as ClosedRange<Long>).contains(value)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince
= "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("intRangeContains")\n\npublic
operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n    return value.toIntExactOrNull().let { if (it

```



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!= null) contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("longRangeContains") \n public operator fun
ClosedRange<Long>.contains(value: Double): Boolean { \n return value.toLongExactOrNull().let { if (it != null)
contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("byteRangeContains") \n public
operator fun ClosedRange<Byte>.contains(value: Double): Boolean { \n return value.toByteExactOrNull().let { if
(it != null) contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("shortRangeContains") \n public operator fun
ClosedRange<Short>.contains(value: Double): Boolean { \n return value.toShortExactOrNull().let { if (it != null)
contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @kotlin.jvm.JvmName("floatRangeContains") \n public operator fun ClosedRange<Float>.contains(value:
Double):
Boolean { \n return contains(value.toFloat()) \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("intRangeContains") \n public operator fun ClosedRange<Int>.contains(value:
Float): Boolean { \n return value.toIntExactOrNull().let { if (it != null) contains(it) else false } \n} \n \n /** \n
* Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5") \n @kotlin.jvm.JvmName("longRangeContains") \n public operator fun ClosedRange<Long>.contains(value:
Float): Boolean { \n return value.toLongExactOrNull().let
{ if (it != null) contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("byteRangeContains") \n public operator fun
ClosedRange<Byte>.contains(value: Float): Boolean { \n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false } \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.") \n @DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5") \n @kotlin.jvm.JvmName("shortRangeContains") \n public operator fun
ClosedRange<Short>.contains(value: Float): Boolean
{ \n return value.toShortExactOrNull().let { if (it != null) contains(it) else false } \n} \n \n /** \n * Checks if the
specified [value] belongs to this range. \n
*\n @kotlin.jvm.JvmName("doubleRangeContains") \n public operator fun
ClosedRange<Double>.contains(value: Float): Boolean { \n return contains(value.toDouble()) \n} \n \n /** \n
* Checks if the specified [value] belongs to this range. \n
*\n @kotlin.jvm.JvmName("doubleRangeContains") \n @SinceKotlin("1.9") \n @WasExperimental(ExperimentalS
tdlibApi::class) \n public operator fun OpenEndRange<Double>.contains(value: Float): Boolean { \n return
contains(value.toDouble()) \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @kotlin.jvm.JvmName("longRangeContains") \n public operator fun ClosedRange<Long>.contains(value: Int):
Boolean { \n return contains(value.toLong()) \n} \n \n /** \n * Checks if the specified [value] belongs to this range. \n
*\n @kotlin.jvm.JvmName("byteRangeContains") \n public operator fun ClosedRange<Byte>.contains(value:
```

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Int): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Int): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Int): Boolean {
    return contains(value.toDouble())
}

Checks if the specified [value] belongs to this range.
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Int): Boolean {
    return contains(value.toFloat())
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("longRangeContains")
@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public operator fun OpenEndRange<Long>.contains(value: Int): Boolean {
    return contains(value.toLong())
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("byteRangeContains")
@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public operator fun OpenEndRange<Byte>.contains(value: Int): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("shortRangeContains")
@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public operator fun OpenEndRange<Short>.contains(value: Int): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@kotlin.internal.InlineOnly
public inline operator fun LongRange.contains(value: Int): Boolean {
    return (this as ClosedRange<Long>).contains(value)
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("intRangeContains")
public operator fun ClosedRange<Int>.contains(value: Long): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("byteRangeContains")
public operator fun ClosedRange<Byte>.contains(value: Long): Boolean {
    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("shortRangeContains")
public operator fun ClosedRange<Short>.contains(value: Long): Boolean {
    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")
@kotlin.jvm.JvmName("doubleRangeContains")
public operator fun ClosedRange<Double>.contains(value: Long): Boolean {
    return contains(value.toDouble())
}

Checks if the specified [value] belongs to this range.
@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")
@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")
@kotlin.jvm.JvmName("floatRangeContains")
public operator fun ClosedRange<Float>.contains(value: Long): Boolean {
    return contains(value.toFloat())
}

Checks if the specified [value] belongs to this range.
@kotlin.jvm.JvmName("intRangeContains")
@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
public operator fun OpenEndRange<Int>.contains(value: Long): Boolean {
    return value.toIntExactOrNull().let { if (it != null) contains(it) else false }
}

Checks if the specified [value] belongs to this range.

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*\n@kotlin.jvm.JvmName("\byteRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Byte>.contains(value: Long): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\shortRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Short>.contains(value: Long): Boolean {\n    return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(value: Long): Boolean {\n    return (this as ClosedRange<Int>).contains(value)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\longRangeContains")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("\doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n    return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")\n@kotlin.jvm.JvmName("\floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n    return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\intRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Int>.contains(value: Short): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\longRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Long>.contains(value: Short): Boolean {\n    return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.jvm.JvmName("\byteRangeContains")\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun OpenEndRange<Byte>.contains(value: Short): Boolean {\n    return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(value: Short): Boolean {\n    return (this as ClosedRange<Int>).contains(value)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(value: Short): Boolean {\n    return (this as ClosedRange<Long>).contains(value)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\npublic infix fun Int.downTo(to: Byte): IntProgression {\n    return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\npublic infix fun Long.downTo(to: Byte): LongProgression {\n    return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value

```



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IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value
should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression
is empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n\n/**\n * Returns a progression that goes over the
same range in the opposite direction with the same step.\n */\npublic fun IntProgression.reversed(): IntProgression
{\n    return IntProgression.fromClosedRange(last, first, -step)\n\n/**\n * Returns a progression that goes over the
same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed():
LongProgression {\n    return LongProgression.fromClosedRange(last, first, -step)\n\n/**\n * Returns a
progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun
CharProgression.reversed(): CharProgression {\n    return CharProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n *
Returns a progression that goes over the same range with the given step.\n */\npublic infix fun
IntProgression.step(step: Int): IntProgression {\n    checkStepIsPositive(step > 0, step)\n    return
IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n\n/**\n * Returns a progression that
goes over the same range with the given step.\n */\npublic infix fun LongProgression.step(step: Long):
LongProgression {\n    checkStepIsPositive(step > 0, step)\n    return LongProgression.fromClosedRange(first, last,
if (this.step > 0) step else -step)\n\n/**\n * Returns a progression that goes over the same range with the given
step.\n */\npublic infix fun CharProgression.step(step: Int): CharProgression {\n    checkStepIsPositive(step > 0,
step)\n    return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun
Int.toByteExactOrNull(): Byte? {\n    return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt())
this.toByte()
else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun
Short.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun
Double.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun
Float.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n    return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n    return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n
return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun
Double.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n    return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n    return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n    return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat())
this.toInt().toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic

```

`infix fun Int.until(to: Byte): IntRange {`  
`return this .. (to.toInt() - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this value.`  
`*/`  
`public infix fun Long.until(to: Byte): LongRange {`  
`return this ..`  
`(to.toLong() - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to]`  
`value.`  
`Returns an empty range if the [to] value is less than or equal to this value.`  
`*/`  
`public infix fun Byte.until(to: Byte): IntRange {`  
`return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding`  
`the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this value.`  
`*/`  
`public infix fun Short.until(to: Byte): IntRange {`  
`return this.toInt() .. (to.toInt() -`  
`1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this value.`  
`*/`  
`public infix fun Char.until(to: Char): CharRange {`  
`if (to <= '\u0000') return CharRange.EMPTY`  
`return this .. (to - 1).toChar()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or`  
`equal to this value.`  
`*/`  
`public infix fun Int.until(to: Int): IntRange {`  
`if (to`  
`<= Int.MIN_VALUE) return IntRange.EMPTY`  
`return this .. (to - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to]`  
`value.`  
`Returns an empty range if the [to] value is less than or equal to this value.`  
`*/`  
`public infix fun Long.until(to: Int): LongRange {`  
`return this .. (to.toLong() - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Byte.until(to: Int): IntRange {`  
`if (to <=`  
`Int.MIN_VALUE) return IntRange.EMPTY`  
`return this.toInt() .. (to - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Short.until(to: Int): IntRange {`  
`if (to <=`  
`Int.MIN_VALUE) return IntRange.EMPTY`  
`return this.toInt() .. (to - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Int.until(to: Long): LongRange {`  
`if (to <= Long.MIN_VALUE) return LongRange.EMPTY`  
`return`  
`this.toLong() .. (to - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to]`  
`value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Long.until(to: Long): LongRange {`  
`if (to <= Long.MIN_VALUE) return LongRange.EMPTY`  
`return this .. (to - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to]`  
`value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Byte.until(to: Long): LongRange {`  
`if (to <= Long.MIN_VALUE) return LongRange.EMPTY`  
`return this.toLong() .. (to - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to but excluding`  
`the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Short.until(to: Long): LongRange {`  
`if (to <= Long.MIN_VALUE) return`  
`LongRange.EMPTY`  
`return this.toLong() .. (to - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to`  
`but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Int.until(to: Short): IntRange {`  
`return this .. (to.toInt() -`  
`1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Long.until(to: Short): LongRange {`  
`return this .. (to.toLong() - 1).toLong()\n}\n\n/**`  
`Returns a range from this value up to`  
`but excluding the specified [to] value.`  
`Returns an empty range if the [to] value is`  
`less than or equal to this value.`  
`*/`  
`public infix fun Byte.until(to: Short):`  
`IntRange {`  
`return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**`  
`Returns a range from this value up to but`  
`excluding the specified [to] value.`  
`Returns an empty range if the [to] value is less than or equal to this`  
`value.`  
`*/`  
`public infix fun Short.until(to: Short): IntRange {`  
`return this.toInt() .. (to.toInt() -`  
`1).toInt()\n}\n\n/**`  
`Ensures that this value is not less than the specified [minimumValue].`  
`Returns this value if it is not less than [minimumValue].`  
`*/`

```

value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastComparable\n * \n public fun <T : Comparable<T>>
T.coerceAtLeast(minimumValue: T): T {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this
value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n * \n public fun Byte.coerceAtLeast(minimumValue: Byte):
Byte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n
* \n public fun Short.coerceAtLeast(minimumValue: Short): Short {\n    return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n
* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n
* @sample samples.comparisons.ComparableOps.coerceAtLeast\n * \n public fun Int.coerceAtLeast(minimumValue:
Int): Int {\n    return
if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the
specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the
[minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n * \n public
fun Long.coerceAtLeast(minimumValue: Long): Long {\n    return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n * \n public fun Float.coerceAtLeast(minimumValue: Float):
Float {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the
[minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n * \n public
fun Double.coerceAtLeast(minimumValue: Double): Double {\n    return if (this < minimumValue) minimumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostComparable\n * \n public fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Int.coerceAtMost(maximumValue: Int): Int
{\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater
than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or
the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Long.coerceAtMost(maximumValue: Long):
Long {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample

```

```

samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Float.coerceAtMost(maximumValue: Float):
Float {\n  return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n *\npublic fun Double.coerceAtMost(maximumValue:
Double): Double {\n  return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified
range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this
value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n *
@sample samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n  if (minimumValue !== null && maximumValue !==
null) {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("\n    if (this <
minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n  }\n  else {\n
if (minimumValue !== null && this < minimumValue) return minimumValue\n    if (maximumValue !== null
&& this > maximumValue) return maximumValue\n  }\n  return this\n}\n\n/**\n * Ensures that this value lies in
the specified range [minimumValue]..[maximumValue].\n
* \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Byte.coerceIn(minimumValue: Byte,
maximumValue: Byte): Byte {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Short.coerceIn(minimumValue:
Short, maximumValue: Short): Short {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Int.coerceIn(minimumValue: Int, maximumValue:
Int): Int {\n  if (minimumValue > maximumValue) throw IllegalArgumentException("\n  if (this < minimumValue)
return minimumValue\n  if (this > maximumValue) return maximumValue\n
return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n
* \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Long.coerceIn(minimumValue: Long,
maximumValue: Long): Long {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n *

```



```

\n * @sample samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Float.coerceIn(minimumValue:
Float, maximumValue: Float): Float {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum
$minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue) return
maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return
this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this
value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange\n *^\n@SinceKotlin("1.1")\npublic fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n    if (range.isEmpty()) throw
IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n    return when {\n        // this <
start equiv to this <= start && !(this >= start)\n        range.lessThanOrEqualTo(this, range.start) &&
!range.lessThanOrEqualTo(range.start, this) -> range.start\n        // this > end equiv to this >= end && !(this <= end)\n
range.lessThanOrEqualTo(range.endInclusive,
this) && !range.lessThanOrEqualTo(this, range.endInclusive) -> range.endInclusive\n        else -> this\n
}\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range],
or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n *^\npublic fun
<T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n    if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<T>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce
value to an empty range: $range.")\n    return when {\n        this < range.start -> range.start\n        this >
range.endInclusive -> range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun
Int.coerceIn(range: ClosedRange<Int>): Int {\n    if (range is ClosedFloatingPointRange) {\n        return
this.coerceIn<Int>(range)\n    }\n    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty
range: $range.")\n    return when {\n        this < range.start -> range.start\n        this > range.endInclusive ->
range.endInclusive\n        else -> this\n    }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the
[range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun
Long.coerceIn(range: ClosedRange<Long>): Long {\n    if (range is ClosedFloatingPointRange)
{\n        return this.coerceIn<Long>(range)\n    }\n    if (range.isEmpty()) throw
IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n    return when {\n        this <
range.start -> range.start\n        this > range.endInclusive -> range.endInclusive\n        else -> this\n
}\n}\n\n"/\n\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npu
blic value class UByte @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal
constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n    companion object {\n        /**\n

```

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    * A constant holding the minimum value
an instance of UByte can have.\n    *^\n    public const val MIN_VALUE: UByte = UByte(0)\n\n    /**\n    * A constant holding the maximum value an instance of UByte can have.\n    *^\n    public const val
MAX_VALUE: UByte = UByte(-1)\n\n    /**\n    * The number of bytes used to represent an instance of
UByte in a binary form.\n    *^\n    public const val SIZE_BYTES: Int = 1\n\n    /**\n    * The number of
bits used to represent an instance of UByte in a binary form.\n    *^\n    public const val SIZE_BITS: Int = 8\n
}\n\n    /**\n    * Compares this value with the specified value for order.\n    * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n    * or a positive number if it's greater than
other.\n    *^\n    @kotlin.internal.InlineOnly\n    @Suppress("OVERRIDE_BY_INLINE")\n    public override
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n
    /**\n    * Compares this value with the specified value for order.\n    * Returns zero if this value is equal to the
specified other value, a negative number if it's less than other,\n    * or a positive number if it's greater than other.\n
    *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n\n    /**\n    * Compares this value with the specified value for order.\n    *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n    * or a
positive number if it's greater than other.\n    *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n    /**\n    * Compares this value with the
specified value for order.\n    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n
    * or a positive number if it's greater than other.\n    *^\n    @kotlin.internal.InlineOnly\n    public inline operator
fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the other value to this value.
    *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value to this value. *^\n    @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value
to this value. *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n    /** Adds the other value to this value. *^\n    @kotlin.internal.InlineOnly\n    public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n    /** Subtracts the other value from
this value. *^\n    @kotlin.internal.InlineOnly\n    public inline operator
fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the other value from this
value. *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the other value from this value. *^\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n\n
    /** Subtracts the other value from this value. *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n    /** Multiplies this value by the other value. *^\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this value by the other value. *^\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this
value by the other value. *^\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UInt): UInt =
this.toUInt().times(other)\n\n    /** Multiplies this value by the other value. *^\n    @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n    /** Divides this value by
the other value, truncating the result to an integer that is closer to zero. *^\n    @kotlin.internal.InlineOnly\n    public
inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n\n    /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. *^\n    @kotlin.internal.InlineOnly\n    public inline
operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n    /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. *^\n    @kotlin.internal.InlineOnly\n    public inline
operator fun div(other: UInt): UInt =

```

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this.toUInt().div(other)\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n *\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n
*\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline
operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division and truncating division
are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): UInt =
this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n
*\n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): UInt =
this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n
*\n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt):
UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n
*\n * For unsigned types, the results of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder
of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than
the divisor.\n *\n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.toUInt().mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this
value (dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n
* For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
@kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**\n *
Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The
result is always less than the divisor.\n *\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong):
ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample
samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UByte =
UByte(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline
operator fun dec(): UByte = UByte(data.dec())\n\n /**\n * Creates a range from this value to the specified [other]
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): UIntRange =

```

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UIntRange(this.toUInt(), other.toUInt())\n\n /**\n * Creates a range from this value up to but excluding the
specified [other] value.\n * If the [other] value is less than or equal to `this` value, then the returned range is
empty.\n *\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeUntil(other: UByte): UIntRange = this.toUInt() until
other.toUInt()\n\n /** Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n
/** Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n /** Performs a bitwise XOR
operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte):
UByte = UByte(this.data xor other.data)\n /** Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n
public inline fun inv(): UByte = UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n *\n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n
* the same numerical value as this `UByte`. Otherwise the result is negative.\n *\n
* The resulting `Byte` value has the same binary representation as this `UByte` value.\n
*\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data\n /**\n * Converts this [UByte] value to [Short].\n *\n
* The resulting `Short` value represents the same numerical value as this `UByte`.\n
*\n
* The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n
* whereas the most significant 8 bits are filled with zeros.\n
*\n @kotlin.internal.InlineOnly\n public inline
fun toShort(): Short = data.toShort() and 0xFF\n /**\n * Converts this [UByte] value to [Int].\n *\n
* The resulting `Int` value represents the same numerical value as this `UByte`.\n
*\n
* The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\n
* whereas the most significant 24 bits are filled with zeros.\n
*\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n
/**\n * Converts this [UByte] value to [Long].\n *\n
* The resulting `Long` value represents the same numerical value as this `UByte`.\n
*\n
* The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value,\n
* whereas the most significant 56 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this
value. *\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = this\n /**\n
* Converts this [UByte] value to [UShort].\n *\n
* The resulting `UShort` value represents the same numerical value as this
`UByte`.\n
*\n
* The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`UByte` value,\n
* whereas the most significant 8 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**\n
* Converts this [UByte] value to [UInt].\n *\n
* The resulting `UInt` value represents the same numerical value as this `UByte`.\n
*\n
* The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\n
* whereas the most significant 24 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n\n
* Converts this [UByte] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UByte`.\n
*\n
* The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\n
* whereas the most significant 56 bits are filled with zeros.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n
* Converts this [UByte] value to [Float].\n *\n
* The resulting `Float` value represents the same numerical value as this `UByte`.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toInt().toFloat()\n /**\n
* Converts this [UByte] value to [Double].\n
*\n
* The resulting `Double` value represents the same numerical value as this `UByte`.\n
*\n
@kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = this.toInt().toDouble()\n\n public override
fun toString(): String = toInt().toString()\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n
* If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n
*\n
* The resulting `UByte` value has the same binary representation as this `Byte` value.\n

```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Short`.\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Int`.\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Long`.\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n"/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UInt @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\n\n    companion object {\n\n        /**\n         * A constant holding the minimum value an instance of UInt can have.\n         */\n        public const val MIN_VALUE: UInt = UInt(0)\n\n        /**\n         * A constant holding the maximum value an instance of UInt can have.\n         */\n        public const val MAX_VALUE: UInt = UInt(-1)\n\n        /**\n         * The number of bytes used to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 4\n\n        /**\n         * The number of bits used to represent an instance of UInt in a binary form.\n         */\n        public const val SIZE_BITS: Int = 32\n    }\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n    /**\n     * Compares this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n\n    /**\n     * Adds the other value to this value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n\n    /**\n     * Adds the other value to this value.\n     */\n}

```

```

@kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n /** Subtracts the other value
from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other:
UShort): UInt = this.minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value
by the other value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n /** Divides this value by the other
value, truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline
operator fun div(other: UShort): UInt = this.div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = uintDivide(this, other)\n /** Divides this value by the other value, truncating the result
to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n
/**\n * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division
of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n
/**\n * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UInt): UInt = uintRemainder(this, other)\n /**\n * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division and truncating division
are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): UInt =
this.floorDiv(other.toUInt())\n /**\n * Divides this value by the other value, flooring the result to an integer that
is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division and truncating division
are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): UInt =
this.floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n *\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.\n *\n * For unsigned types, the results of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always less than the
divisor.\n *\n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/

```

```

*^@kotlin.internal.InlineOnly
    public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte() /** Calculates the
remainder of flooring division of this value (dividend) by the other value (divisor). The result is always
less than the divisor. For unsigned types, the remainders of flooring division and truncating division are
the same. ^@kotlin.internal.InlineOnly
    public inline fun mod(other: UShort): UShort =
this.mod(other.toUInt()).toUShort() /** Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor). The result is always less than the divisor. For
unsigned types, the remainders of flooring division and truncating division are the same. ^
@kotlin.internal.InlineOnly
    public inline fun mod(other: UInt): UInt = rem(other) /** Calculates the
remainder of flooring division of this value (dividend) by the other
value (divisor). The result is always less than the divisor. For unsigned types, the
remainders of flooring division and truncating division are the same. ^@kotlin.internal.InlineOnly
    public inline fun mod(other: ULong): ULong = this.toULong().mod(other) /** Returns this value
incremented by one. @sample samples.misc.Builtins.inc ^@kotlin.internal.InlineOnly
    public inline operator fun inc(): UInt = UInt(data.inc()) /** Returns this value decremented by one.
@sample samples.misc.Builtins.dec ^@kotlin.internal.InlineOnly
    public inline operator fun dec(): UInt = UInt(data.dec()) /** Creates a range from this value to the specified [other] value. ^
@kotlin.internal.InlineOnly
    public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other) /** Creates a range from this value up to but excluding
the specified [other] value. The result is empty. If the [other] value is less than or equal to `this` value, then the returned
range is empty. ^@SinceKotlin("1.9")
    @WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
    public inline operator fun rangeUntil(other: UInt): UIntRange = this until other /**
Shifts this value left by the [bitCount] number of bits. Note that only the five lowest-order
bits of the [bitCount] are used as the shift distance. The shift distance actually used is therefore always in the
range `0..31`. ^@kotlin.internal.InlineOnly
    public inline infix fun shl(bitCount: Int): UInt = UInt(data
shl bitCount) /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with
zeros. Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.
The shift distance actually used
is therefore always in the range `0..31`. ^@kotlin.internal.InlineOnly
    public inline infix fun
shr(bitCount: Int): UInt = UInt(data ushr bitCount) /** Performs a bitwise AND operation between the two
values. ^@kotlin.internal.InlineOnly
    public inline infix fun and(other: UInt): UInt = UInt(this.data and
other.data) /** Performs a bitwise OR operation between the two values. ^@kotlin.internal.InlineOnly
    public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data) /** Performs a bitwise XOR operation
between the two values. ^@kotlin.internal.InlineOnly
    public inline infix fun xor(other: UInt): UInt =
UInt(this.data xor other.data) /** Inverts the bits in this value. ^@kotlin.internal.InlineOnly
    public
inline fun inv(): UInt = UInt(data.inv()) /** Converts this [UInt] value to [Byte]. If this
value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents the same numerical value as this `UInt`. The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value. Note that the resulting `Byte` value may be
negative. ^@kotlin.internal.InlineOnly
    public inline fun toByte(): Byte = data.toByte() /**
Converts this [UInt] value to [Short]. If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents the same numerical value as this `UInt`. The resulting `Short`
value is represented by the least significant 16 bits of this `UInt` value. Note that the resulting `Short` value
may be negative. ^@kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort()
/** Converts this [UInt] value to [Int]. If this value is less than or equals to [Int.MAX_VALUE],
the resulting `Int` value represents
the same numerical value as this `UInt`. Otherwise the result is negative. The resulting `Int` value
has the same binary representation as this `UInt` value. ^@kotlin.internal.InlineOnly
    public inline fun

```





```

[UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is
negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
*@\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\n",/>\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *@\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npubl
ic
value class UShort @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal constructor(@PublishedApi
internal val data: Short) : Comparable<UShort> {\n\n    companion object {\n        /**\n         * A constant holding
the minimum value an instance of UShort can have.\n         */\n        public const val MIN_VALUE: UShort =
UShort(0)\n\n        /**\n         * A constant holding the maximum value an instance of UShort can have.\n         */\n
        public const val MAX_VALUE: UShort = UShort(-1)\n\n        /**\n         * The number of bytes used to represent
an instance of UShort in a binary form.\n         */\n        public const val SIZE_BYTES: Int = 2\n\n        /**\n
         * The number of bits used to represent an instance of UShort in a binary form.\n         */\n        public const val
SIZE_BITS: Int = 16\n    }\n\n    /**\n     * Compares this value with the specified
value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if it's less
than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares
this value with the specified value for order.\n     * Returns zero if this value is equal to the specified other value, a
negative number if it's less than other,\n     * or a positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    @Suppress("OVERRIDE_BY_INLINE")\n    public override inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n    /**\n     * Compares this value with the
specified value for order.\n     * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n     * or a positive number
if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other:
UInt): Int = this.toUInt().compareTo(other)\n\n    /**\n     * Compares this value with the specified value for order.\n
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n     * or a
positive number if it's greater than other.\n     */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n    /** Adds the other value
to this value. */\n    @kotlin.internal.InlineOnly\n    public inline
operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n\n    /** Adds the other value to this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the
other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UShort):
UInt = this.toUInt().minus(other.toUInt())\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n\n    /** Subtracts the other value from this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n    /** Multiplies this value by the
other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this value by the other value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n    /** Multiplies this value by the other value. */\n

```

```

@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer
that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt())\n /** Divides this value by the other value, truncating the result to an integer that
is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value
(dividend) by the other value (divisor).\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /**\n *
Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n * The
result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n\n /**\n * Divides this value by the
other value,
flooring the result to an integer that is closer to negative infinity.\n * For unsigned types, the results of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n * The result is always less than the
divisor.\n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n * The result is always less than the divisor.\n * For
unsigned types, the remainders of flooring division and truncating
division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.toUInt().mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this
value (dividend) by the other value (divisor).\n * The result is always less than the divisor.\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n /**\n *
Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n * The

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result is always less than the divisor.\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: ULong):
ULong = this.toULong().mod(other)\n /**\n * Returns
this value incremented by one.\n */\n * @sample samples.misc.Builtins.inc\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n /**\n *
Returns this value decremented by one.\n */\n * @sample samples.misc.Builtins.dec\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n /** Creates a
range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n /**\n * Creates a range from
this value up to but excluding the specified [other] value.\n */\n * If the [other] value is less than or equal to
`this` value, then the returned range is empty.\n */\n @SinceKotlin("1.9")\n
@WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline operator fun
rangeUntil(other:
UShort): UIntRange = this.toUInt() until other.toUInt()\n /** Performs a bitwise AND operation between the
two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort =
UShort(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. */\n
@kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n
/** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline
infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n /** Inverts the bits in this value. */\n
@kotlin.internal.InlineOnly\n public inline fun inv(): UShort = UShort(data.inv())\n /**\n * Converts this
[UShort] value to [Byte].\n */\n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting
`Byte` value represents\n * the same numerical value as this `UShort`.\n
*\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n * Note
that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data.toByte()\n /**\n * Converts this [UShort] value to [Short].\n */\n * If this value is less
than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same numerical value as
this `UShort`. Otherwise the result is negative.\n */\n * The resulting `Short` value has the same binary
representation as this `UShort` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short =
data\n /**\n * Converts this [UShort] value to [Int].\n */\n * The resulting `Int` value represents the same
numerical value as this `UShort`.\n */\n * The least significant 16 bits of the resulting `Int` value are the same as
the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toInt(): Int = data.toInt() and 0xFFFF\n /**\n * Converts this [UShort] value to [Long].\n */\n *
The resulting `Long` value represents the same numerical value as this `UShort`.\n */\n * The least significant
16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n * whereas the most
significant 48 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long =
data.toLong() and 0xFFFF\n /**\n * Converts this [UShort] value to [UByte].\n */\n * If this value is
less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical
value as this `UShort`.\n */\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`UShort` value.\n */\n @kotlin.internal.InlineOnly\n
public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n */\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
*\n * whereas the most significant 16 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n */\n
*\n * The resulting `ULong` value represents the same numerical value as this `UShort`.\n */\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the

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most significant 48 bits are filled with zeros.\n * \n @kotlin.internal.InlineOnly\n
    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n\n /** \n * Converts this [UShort]
value to [Float].\n * \n * The resulting `Float` value represents the same numerical value as this `UShort`.\n
*\n @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float = this.toInt().toFloat()\n\n /** \n *
Converts this [UShort] value to [Double].\n * \n * The resulting `Double` value represents the same numerical
value as this `UShort`.\n * \n @kotlin.internal.InlineOnly\n    public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n    public override fun toString(): String = toInt().toString()\n\n}\n\n/** \n * Converts this
[Byte] value to [UShort].\n * \n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n * \n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * \n * whereas
the most significant 8 bits are filled with the sign bit of this value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n\n/** \n * Converts this [Short] value to
[UShort].\n * \n * If this value is positive, the resulting `UShort` value represents the same numerical value as this
`Short`.\n * \n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Short.toUShort(): UShort = UShort(this)\n\n/** \n * Converts this [Int] value to [UShort].\n * \n * If
this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n *
the same numerical value as this `Int`.\n * \n * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Int.toUShort(): UShort = UShort(this.toShort())\n\n/** \n * Converts this [Long] value to
[UShort].\n * \n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
value represents\n * \n * the same numerical value as this `Long`.\n * \n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun Long.toUShort(): UShort = UShort(this.toShort())\n\n", "/* \n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\nimport kotlin.random.Random\n\ninternal object EmptyIterator :
ListIterator<Nothing> {\n    override fun hasNext(): Boolean = false\n    override fun hasPrevious(): Boolean =
false\n    override fun nextIndex(): Int = 0\n    override fun previousIndex(): Int = -1\n    override fun next(): Nothing
= throw NoSuchElementException()\n    override fun previous(): Nothing = throw
NoSuchElementException()\n\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n
private const val serialVersionUID: Long = -7390468764508069838L\n\n    override fun equals(other: Any?):
Boolean = other is List<*> && other.isEmpty()\n    override fun hashCode(): Int = 1\n    override fun toString():
String = "[]"\n\n    override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n    override fun
contains(element: Nothing): Boolean = false\n    override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()\n\n    override fun get(index: Int): Nothing = throw
IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n    override fun
indexOf(element: Nothing): Int = -1\n    override fun lastIndexOf(element: Nothing): Int = -1\n\n    override fun
iterator(): Iterator<Nothing> = EmptyIterator\n    override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n
    override fun listIterator(index: Int): ListIterator<Nothing> {\n        if (index != 0) throw
IndexOutOfBoundsException("Index: $index")\n        return EmptyIterator\n    }\n\n    override fun
subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n        if (fromIndex == 0 && toIndex == 0) return this\n
throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n    }\n\n    private fun

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readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs
= false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T>
{\n  override val size: Int get() = values.size\n  override fun isEmpty(): Boolean = values.isEmpty()\n  override
fun contains(element: T): Boolean = values.contains(element)\n  override fun containsAll(elements:
Collection<T>): Boolean = elements.all { contains(it) }\n  override fun iterator(): Iterator<T> = values.iterator()\n
// override hidden toArray implementation to prevent copying of values array\n  public fun toArray(): Array<out
Any?> = values.toArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T>
emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is
serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic
fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n *
Returns a new read-only list containing only the specified object [element].\n * The returned list is serializable
(JVM).\n * @sample samples.collections.Collections.Lists.singletonReadOnlyList\n
*/\n\n/**\n * Returns an empty read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n */\n\n/**\n * Returns an empty new [MutableList].\n * @sample
samples.collections.Collections.Lists.emptyMutableList\n
*/\n\n/**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*/\n\n/**\n * Returns a new [MutableList] with the given
elements.\n * @sample samples.collections.Collections.Lists.mutableList\n */\n\npublic fun <T>
mutableListOf(vararg elements: T): MutableList<T> =\n  if (elements.size == 0) ArrayList() else
ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new [ArrayList] with the given
elements.\n * @sample samples.collections.Collections.Lists.arrayList\n */\n\npublic fun <T> arrayListOf(vararg
elements: T): ArrayList<T> =\n  if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements,
isVarargs = true))\n\n/**\n * Returns a new read-only list either of single given element, if it is not null, or empty
list if the element is null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\n\npublic fun <T : Any> listOfNotNull(element: T?):
List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of those
given elements, that are not null. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.listOfNotNull\n */\n\npublic fun <T : Any> listOfNotNull(vararg elements: T?):
List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each list
element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n
*/\n\n/**\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*/\n\n/**\n * Creates a new mutable list with the specified [size], where each element
is calculated
by calling the specified\n * [init] function.\n * The function [init] is called for each list element sequentially
starting from the first one.\n * It should return the value for a list element given its index.\n
*/\n\n/**\n * @sample
samples.collections.Collections.Lists.mutableListFromInitializer\n
*/\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given

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[builderAction])\n * and returning a read-only list with the same elements.\n *\n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n *\n * The returned list is serializable (JVM).\n *\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.)
-> Unit): List<E> {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninter
nal expect inline fun <E> buildListInternal(builderAction: MutableList<E>.) -> Unit): List<E>\n\n/**\n * Builds a
new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list
with the same elements.\n * The list passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n * The returned list is
serializable (JVM).\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n
*\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Lists.buildListSampleWithCapacity\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\npublic inline fun <E> buildList(capacity: Int, @BuilderInference builderAction:
MutableList<E>.) -> Unit): List<E> {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return buildListInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.) -> Unit): List<E>\n\n/**\n * Returns an
[IntRange] of the valid indices for this collection.\n * @sample
samples.collections.Collections.Collections.indicesOfCollection\n *\npublic val Collection<*>.indices: IntRange\n
get() = 0..size - 1\n\n/**\n * Returns the index of the last
item in the list or -1 if the list is empty.\n *\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n
*\npublic val <T> List<T>.lastIndex: Int\n    get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not
empty.\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean =
!isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample
samples.collections.Collections.Collections.collectionIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Collections.collectionOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orElse(): Collection<T> = this ?:
emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Lists.listOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
List<T>?.orElse(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the
result of calling [defaultValue] function if the collection is empty.\n *\n * @sample
samples.collections.Collections.Collections.collectionIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n    if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n * The returned list is serializable (JVM).\n * [capacity] is used to hint the expected number of
elements added in the [builderAction].\n
*\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>

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Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n\n * Returns a
new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of
randomness.\n * \n @SinceKotlin("1.3")\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> =
toMutableList().apply { shuffle(random) }\n\n\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n
0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this\n}\n\n\n * Searches this list or its range for the provided
[element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to
the Comparable natural ordering of its
elements,\n * otherwise the result is undefined.\n * \n * If the list contains multiple elements equal to the specified
[element], there is no guarantee which one will be found.\n * \n * `null` value is considered to be less than any non-
null value.\n * \n * @return the index of the element, if it is contained in the list within the specified range;\n *
otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which
the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n *
\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample
samples.collections.Collections.Lists.binarySearchWithBoundaries\n * \n\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n
rangeCheck(size, fromIndex,
toIndex)\n\n
var low = fromIndex\n
var high = toIndex - 1\n\n
while (low <= high) {\n
val
mid = (low + high).ushr(1) // safe from overflows\n
val midVal = get(mid)\n
val cmp =
compareValues(midVal, element)\n\n
if (cmp < 0)\n
low = mid + 1\n
else if (cmp > 0)\n
high
= mid - 1\n
else\n
return mid // key found\n
}\n
return -(low + 1) // key not found\n}\n\n\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to
be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n * \n *
If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be
found.\n * \n * `null` value is considered to be less than any non-null value.\n * \n * @return the index of the element,
if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point -
1)`.\n * The insertion point is defined as the index
at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted
according to the specified [comparator].\n * \n * @sample
samples.collections.Collections.Lists.binarySearchWithComparator\n * \n\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n
rangeCheck(size, fromIndex, toIndex)\n\n
var low = fromIndex\n
var high = toIndex - 1\n\n
while (low <=
high) {\n
val mid = (low + high).ushr(1) // safe from overflows\n
val midVal = get(mid)\n
val cmp =
comparator.compare(midVal, element)\n\n
if (cmp < 0)\n
low = mid + 1\n
else if (cmp > 0)\n
high
= mid - 1\n
else\n
return mid // key found\n
}\n
return -(low + 1) // key not found\n}\n\n\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to
the provided [key]
value using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the
Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n * \n * If the list contains
multiple elements with the specified [key], there is no guarantee which one will be found.\n * \n * `null` value is
considered to be less than any non-null value.\n * \n * @return the index of the element with the specified [key], if it
is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n
\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the
specified subrange of list) still remains sorted.\n * \n * @sample
samples.collections.Collections.Lists.binarySearchByKey\n * \n\npublic inline fun <T, K : Comparable<K>>
List<T>.binarySearchBy(\n
key: K?,\n
fromIndex: Int = 0,\n
toIndex: Int = size,\n
crossinline selector:
(T) -> K?\n): Int =\n
binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n\n// do not
introduce this overload --- too rare\n//\npublic fun <T, K> List<T>.binarySearchBy(key: K, comparator:
Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n\n//
binarySearch(fromIndex,
toIndex) { comparator.compare(selector(it), key) }\n\n\n\n * Searches this list or its range for an element for

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which the given [comparison] function returns zero using the binary search algorithm. The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements, i.e. negative values come before zero and zeroes come before positive values. Otherwise, the result is undefined. If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found. @param comparison function that returns zero when called on the list element being searched. On the elements coming before the target element, the function must return negative values; on the elements coming after the target element, the function must return positive values. @return the index of the found element, if it is contained in the list within the specified range; otherwise, the inverted insertion point  $(-insertion\ point - 1)$ . The insertion point is defined as the index at which the element should be inserted, so that the list (or the specified subrange of list) still remains sorted. @sample

```

samples.collections.Collections.Lists.binarySearchWithComparisonFunction
public fun <T>
List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {
    rangeCheck(size, fromIndex, toIndex)
    var low = fromIndex
    var high = toIndex - 1
    while (low <= high) {
        val mid = (low + high).ushr(1) // safe from overflows
        val midVal = get(mid)
        val cmp = comparison(midVal)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
    }
    return -(low + 1) // key not found
}

```

\* Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't.

```

private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {
    when {
        fromIndex > toIndex -> throw
IllegalArgumentExcepTion("fromIndex ($fromIndex) is greater than toIndex ($toIndex).")
        fromIndex < 0 ->
throw IndexOutOfBoundsExcepTion("fromIndex ($fromIndex) is less than zero.")
        toIndex > size -> throw
IndexOutOfBoundsExcepTion("toIndex ($toIndex) is greater than size ($size).")
    }
}

```

@PublishedApi @SinceKotlin("1.3") internal expect fun checkIndexOverflow(index: Int): Int

@PublishedApi @SinceKotlin("1.3") internal expect fun checkCountOverflow(count: Int): Int

@PublishedApi @SinceKotlin("1.3") internal fun throwIndexOverflow() { throw ArithmeticException("Index overflow has happened.") }

@PublishedApi @SinceKotlin("1.3") internal fun throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }

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```

@file:kotlin.jvm.JvmMultifileClass @file:kotlin.jvm.JvmName("MapsKt") @file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)
package kotlin.collections
import kotlin.contracts.*
private object EmptyMap : Map<Any?, Nothing>, Serializable {
    private const val serialVersionUID: Long = 8246714829545688274
    override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = "{}"
    override val size: Int get() = 0
    override fun isEmpty(): Boolean = true
    override fun containsKey(key: Any?): Boolean = false
    override fun containsValue(value: Nothing): Boolean = false
    override fun get(key: Any?): Nothing? = null
    override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet
    override val keys: Set<Any?> get() = EmptySet
    override val values: Collection<Nothing> get() = EmptyList
    private fun readResolve(): Any = EmptyMap
}

```

\* Returns an empty read-only map of specified type. The returned map is serializable (JVM).

@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap

```

public fun <K, V> emptyMap(): Map<K, V> = @SuppressWarnings("UNCHECKED_CAST") (EmptyMap as Map<K, V>)

```

\* Returns a new read-only map with the specified contents, given as a list of pairs where the first value is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified. The returned map is serializable (JVM).

@sample samples.collections.Maps.Instantiation.mapFromPairs

```

public fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =
    if (pairs.size > 0)
        pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))
    else emptyMap()

```

\* Returns a new read-only map,



mapping only the specified key to the specified value. The returned map is serializable (JVM).

`@sample samples.collections.Maps.Instantiation.mapFromPairs`

```

public expect fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V>

```

Returns an empty read-only map. The returned map is serializable (JVM).

`@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap`

```

public inline fun <K, V> mapOf(): Map<K, V> = emptyMap()

```

Returns an empty new [MutableMap].

The returned map preserves the entry iteration order.

`@sample samples.collections.Maps.Instantiation.emptyMutableMap`

```

public inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()

```

Returns a new [MutableMap] with the specified contents, given as a list of pairs where the first component is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified.

`@sample samples.collections.Maps.Instantiation.mutableMapFromPairs`

```

public fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> = LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }

```

Returns an empty new [HashMap].

`@sample samples.collections.Maps.Instantiation.emptyHashMap`

```

public inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()

```

Returns a new [HashMap] with the specified contents, given as a list of pairs where the first component is the key and the second is the value.

`@sample samples.collections.Maps.Instantiation.hashMapFromPairs`

```

public fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }

```

Returns an empty new [LinkedHashMap].

```

public inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()

```

Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs where the first component is the key and the second is the value. If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs. Entries of the map are iterated in the order they were specified.

`@sample samples.collections.Maps.Instantiation.linkedMapFromPairs`

```

public fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))

```

Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs. The map passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. Entries of the map are iterated in the order they were added by the [builderAction]. The returned map is serializable (JVM).

`@sample samples.collections.Builders.Maps.buildMapSample`

```

@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>() -> Unit): Map<K, V> {
    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return buildMapInternal(builderAction)
}

```

`@PublishedApi`

```

public inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>() -> Unit): Map<K, V>

```

Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction] and returning a read-only map with the same key-value pairs. The map passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. [capacity] is used to hint the expected number of pairs added in the [builderAction]. Entries of the map are iterated in the order they were added by the [builderAction]. The returned map is serializable (JVM).

`@throws IllegalArgumentException` if the given [capacity] is negative.

```

*\n * @sample samples.collections.Builders.Maps.buildMapSample\n
*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n @Suppress("DEPRECATION")\n public inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n     contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n     return buildMapInternal(capacity, builderAction)\n }\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n internal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit): Map<K, V>\n\n /**\n  * Calculate the initial capacity of a map.\n  */\n @PublishedApi\n internal expect fun mapCapacity(expectedSize: Int): Int\n\n /**\n  * Returns `true` if this map is not empty.\n  */\n @sample\n samples.collections.Maps.Usage.mapIsNotEmpty\n\n /**\n  * @kotlin.internal.InlineOnly\n  * public inline fun <K, V> Map<out K, V>.isEmpty(): Boolean = !isEmpty()\n\n  */\n\n  * Returns `true` if this nullable map is either null or empty.\n  */\n @sample\n samples.collections.Maps.Usage.mapIsNullOrEmpty\n\n\n /**\n  * @kotlin.internal.InlineOnly\n  * public inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\n     contract {\n         returns(false) implies (this@isNullOrEmpty != null)\n     }\n     return this == null || isEmpty()\n }\n\n /**\n  * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n  */\n\n @sample\n samples.collections.Maps.Usage.mapOrElse\n\n /**\n  * @kotlin.internal.InlineOnly\n  * public inline fun <K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n  */\n\n  * Returns this map if it's not empty\n  * or the result of calling [defaultValue] function if the map is empty.\n  */\n @sample\n samples.collections.Maps.Usage.mapIfEmpty\n\n /**\n  * @kotlin.internal.InlineOnly\n  * public inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n     if (isEmpty())\n     defaultValue() else this\n\n  */\n\n  * Checks if the map contains the given key.\n  */\n\n  * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\n  */\n @sample\n samples.collections.Maps.Usage.containsKey\n\n\n /**\n  * @kotlin.internal.InlineOnly\n  * public inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n  */\n\n  * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n  */\n @kotlin.internal.InlineOnly\n public inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)\n\n /**\n  * Allows to use the index operator for storing values in a mutable map.\n  */\n @kotlin.internal.InlineOnly\n public inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n     put(key, value)\n }\n\n /**\n  * Returns `true` if the map contains the specified [key].\n  */\n\n  * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\n  */\n @kotlin.internal.InlineOnly\n public inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n @Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)\n\n /**\n  * Returns `true` if the map maps one or more keys to the specified [value].\n  */\n\n  * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n  */\n @sample\n samples.collections.Maps.Usage.containsValue\n\n\n /**\n  * @Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases\n  * @kotlin.internal.InlineOnly\n  * public inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\n\n  */\n\n  * Removes the specified key and its corresponding value from this map.\n  */\n\n  * @return the previous value associated with the key, or `null` if the key was not present in the map.\n  */\n\n  * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n  */\n @kotlin.internal.InlineOnly\n public inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as MutableMap<K, V>).remove(key)\n\n /**\n  * Returns the key component of the map entry.\n  */\n\n  * This method allows to use destructuring declarations when working with maps, for example:\n  * ```\n  * for ((key, value) in map) {\n  *     // do

```

```
something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K,  
V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key,  
value) in map) {\n * // do something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator  
fun <K, V> Map.Entry<K, V>.component2(): V = value\n\n/**\n * Converts entry to [Pair] with key being first  
component and value being second.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K,  
V>.toPair(): Pair<K, V> = Pair(key, value)\n\n/**\n * Returns the value for the given [key] if the value is present  
and not `null`.\n * Otherwise, returns the result of the [defaultValue] function.\n * @sample  
samples.collections.Maps.Usage.getOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K,  
V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\n\ninternal inline fun <K, V>  
Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\n val value = get(key)\n if (value == null  
&& !containsKey(key)) {\n return defaultValue()\n } else {\n @Suppress("UNCHECKED_CAST")\n return value as V\n }\n}\n\n/**\n * Returns the value for the given [key] or throws an exception if there is no  
such key  
in the map.\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function  
instead of throwing an exception.\n * @throws NoSuchElementException when the map doesn't contain a value  
for the specified key and  
no implicit default value was provided for that map.\n */\n@SinceKotlin("1.1")\npublic fun <K, V> Map<K, V>.getValue(key: K): V =  
getOrNull(key)\n\n/**\n * Returns the value for the given [key] if the value is present and not `null`.\n * Otherwise, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns the call  
result.\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n * @sample samples.collections.Maps.Usage.getOrPut\n */\npublic inline fun <K, V> MutableMap<K,  
V>.getOrPut(key: K, defaultValue: () -> V): V {\n val value = get(key)\n return if (value == null) {\n val  
answer = defaultValue()\n put(key,  
answer)\n answer\n } else {\n value\n }\n}\n\n/**\n * Returns an [Iterator] over the entries in the  
[Map].\n * @sample samples.collections.Maps.Usage.forOverEntries\n */\n@kotlin.internal.InlineOnly\npublic  
inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n */\n@kotlin.jvm.JvmName("mutableIterator")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V>  
MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the values obtained  
* by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K, V, R, M : MutableMap<in  
K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return  
entries.associateByTo(destination,  
{ it.key }, transform)\n}\n\n/**\n * Populates the given [destination] map with entries having the keys obtained  
* by applying the [transform] function to each entry in this [Map] and the values of this map.\n * In case if any  
two entries are mapped to the equal keys, the value of the latter one will overwrite  
* the value associated with the  
former one.\n */\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K,  
V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return  
entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into this  
[MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V>  
MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n  
put(key, value)\n }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first  
component in the  
pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs:  
Iterable<Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n  
put(key, value)\n }\n}\n\n/**\n * Puts all the  
elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the
```

```

second the value.\n *\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit
{\n for ((key, value) in pairs) {\n put(key, value)\n }}\n\n/**\n * Returns a new map with entries having
the keys of this map and the values obtained by applying the [transform]\n * function to each entry in this [Map].\n
*\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Transformations.mapValues\n *\npublic inline fun <K, V, R> Map<out K,
V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n return mapValuesTo(LinkedHashMap<K,
R>(mapCapacity(size)),
transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries having the keys obtained by
applying the [transform] function to each entry in this\n * [Map] and the values of this map.\n *\n * In case if any
two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the
former one.\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Transformations.mapKeys\n *\npublic inline fun <K, V, R> Map<out K,
V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n return mapKeysTo(LinkedHashMap<R,
V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-
value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of
the original map.\n *\n * @sample samples.collections.Maps.Filtering.filterKeys\n *\npublic inline fun <K, V>
Map<out K, V>.filterKeys(predicate:
(K) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry in this) {\n if
(predicate(entry.key)) {\n result.put(entry.key, entry.value)\n }}\n return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values matching the given [predicate].\n *\n * The returned map
preserves the entry iteration order of the original map.\n *\n * @sample
samples.collections.Maps.Filtering.filterValues\n *\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry
in this) {\n if (predicate(entry.value)) {\n result.put(entry.key, entry.value)\n }}\n return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n *\n * @return the destination map.\n *\n * @sample samples.collections.Maps.Filtering.filterTo\n
*\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate:
(Map.Entry<K, V>) -> Boolean): M {\n for (element in this) {\n if (predicate(element)) {\n
destination.put(element.key, element.value)\n }}\n return destination\n}\n\n/**\n * Returns a new map
containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration
order of the original map.\n *\n * @sample samples.collections.Maps.Filtering.filter\n *\npublic inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return
filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate]
into the given [destination].\n *\n * @return the destination map.\n *\n * @sample
samples.collections.Maps.Filtering.filterNotTo\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K,
V>) -> Boolean): M {\n for (element in this) {\n if (!predicate(element)) {\n
destination.put(element.key, element.value)\n }}\n return destination\n}\n\n/**\n * Returns a new map
containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry
iteration order of the original map.\n *\n * @sample samples.collections.Maps.Filtering.filterNot\n *\npublic inline fun
<K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return
filterNotTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs
from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original
collection.\n *\n * If any of two pairs would have the same key the last one gets added to the map.\n *\npublic fun <K,
V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\n if (this is Collection) {\n return when (size) {\n
0 -> emptyMap()\n 1 -> mapOf(if (this is List) this[0] else iterator().next())\n else ->
toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n }}\n return toMap(LinkedHashMap<K,

```

`V>().optimizeReadOnlyMap()` Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.
   
`<K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M` = destination.apply { putAll(this@toMap) }
   
 Returns a new map containing all key-value pairs from the given array of pairs.
   
 The returned map preserves the entry iteration order of the original array.
   
 If any of two pairs would have the same key the last one gets added to the map.
   
`<K, V> Array<out Pair<K, V>>.toMap(): Map<K, V>` = when (size) { 0 -> emptyMap() 1 -> mapOf(this[0]) else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
   
 Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.
   
`<K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M` = destination.apply { putAll(this@toMap) }
   
 Returns a new map containing all key-value pairs from the given sequence of pairs.
   
 The returned map preserves the entry iteration order of the original sequence.
   
 If any of two pairs would have the same key the last one gets added to the map.
   
`<K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V>` = toMap(LinkedHashMap<K, V>().optimizeReadOnlyMap())
   
 Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.
   
`<K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M` = destination.apply { putAll(this@toMap) }
   
 Returns a new read-only map containing all key-value pairs from the original map.
   
 The returned map preserves the entry iteration order of the original map.
   
`@SinceKotlin("1.1") <K, V> Map<out K, V>.toMap(): Map<K, V>` = when (size) { 0 -> emptyMap() 1 -> toSingletonMap() else -> toMutableMap()
   
 Returns a new mutable map containing all key-value pairs from the original map.
   
 The returned map preserves the entry iteration order of the original map.
   
`@SinceKotlin("1.1") <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V>` = LinkedHashMap(this)
   
 Populates and returns the [destination] mutable map with key-value pairs from the given map.
   
`@SinceKotlin("1.1") <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M` = destination.apply { putAll(this@toMap) }
   
 Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].
   
 The returned map preserves the entry iteration order of the original map.
   
 The [pair] is iterated in the end if it has a unique key.
   
`<K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V>` = if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }
   
 Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].
   
 The returned map preserves the entry iteration order of the original map.
   
 Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.
   
`<K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V>` = if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }
   
 Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].
   
 The returned map preserves the entry iteration order of the original map.
   
 Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.
   
`<K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V>` = if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }
   
 Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].
   
 The returned map preserves the entry iteration order of the original map.
   
 Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.
   
`<K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V>` = LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()
   
 Creates a new read-only map by replacing or adding entries to this map from another [map].
   
 The returned map preserves the entry iteration order of the original map.
   
 Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].
   
`<K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V>` = LinkedHashMap(this).apply { putAll(map) }
   
 Appends or replaces the given [pair] in this mutable map.
   
`@kotlin.internal.InlineOnly <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {` put(pair.first, pair.second)
   
 Appends or

```

replaces all pairs from the given collection of [pairs] in this mutable map.
inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
    putAll(pairs)
}
Append or replaces all pairs from the given array of [pairs] in this mutable map.
inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs:
Array<out Pair<K, V>>) {
    putAll(pairs)
}
Append or replaces all pairs from the given sequence of
[pairs] in this mutable map.
inline operator fun <K, V> MutableMap<in
K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
    putAll(pairs)
}
Append or replaces all
entries from the given [map] in this mutable map.
inline operator fun <K,
V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {
    putAll(map)
}
Returns a map
containing all entries of the original map except the entry with the given [key].
The returned map preserves
the entry iteration order of the original map.
SinceKotlin("1.1") public operator fun <K, V> Map<out K,
V>.minus(key: K): Map<K, V> =
    this.toMutableMap().apply { minusAssign(key)
}
optimizeReadOnlyMap()
Returns a map containing all entries of the original map except those entries
the keys of which are contained in the given [keys] collection.
The returned map preserves the entry
iteration order of the original map.
SinceKotlin("1.1") public operator fun <K, V> Map<out K,
V>.minus(keys: Iterable<K>): Map<K,
V> =
    this.toMutableMap().apply { minusAssign(keys) }
optimizeReadOnlyMap()
Returns a map
containing all entries of the original map except those entries
the keys of which are contained in the given [keys]
array.
The returned map preserves the entry iteration order of the original map.
SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V>
=
    this.toMutableMap().apply { minusAssign(keys) }
optimizeReadOnlyMap()
Returns a map
containing all entries of the original map except those entries
the keys of which are contained in the given [keys]
sequence.
The returned map preserves the entry iteration order of the original map.
SinceKotlin("1.1") public operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V>
=
    this.toMutableMap().apply { minusAssign(keys) }
optimizeReadOnlyMap()
Removes the entry
with the given [key] from this mutable map.
SinceKotlin("1.1") inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {
    remove(key)
}
Removes all
entries the keys of which are contained in the given [keys] collection from this mutable map.
SinceKotlin("1.1") inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Iterable<K>) {
    this.keys.removeAll(keys)
}
Removes all entries the keys of
which are contained in the given [keys] array from this mutable map.
SinceKotlin("1.1") inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Array<out K>) {
    this.keys.removeAll(keys)
}
Removes all entries from the
keys of which are contained in the given [keys] sequence from this mutable map.
SinceKotlin("1.1") inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Sequence<K>) {
    this.keys.removeAll(keys)
}
do not expose for now
@PublishedApi internal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size)
{
    0 -> emptyMap()
    1 -> toSingletonMapOrSelf()
    else -> this
}
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Apache 2.0 license that can be found in the license/LICENSE.txt file.
@file:kotlin.jvm.JvmMultifileClass @file:kotlin.jvm.JvmName("SetsKt") @file:OptIn(kotlin.experimenta
l.ExperimentalTypeInference::class)
package kotlin.collections
nimport kotlin.contracts.*
ninternal object
EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long =
3406603774387020532
    override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()
    override fun hashCode(): Int = 0
    override fun toString(): String = ""
    override val size: Int get() = 0
    override fun isEmpty(): Boolean
= true
    override fun contains(element: Nothing): Boolean = false
    override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()
    override fun iterator(): Iterator<Nothing> =

```

EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n}\n\n/\*\*\n \* Returns an empty read-only set. The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.emptyReadOnlySet\n \*/\npublic fun <T> emptySet(): Set<T> = EmptySet\n/\*\*\n \* Returns a new read-only set with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.readOnlySet\n \*/\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n/\*\*\n \* Returns a new read-only set containing only the specified object [element].\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.singletonReadOnlySet\n \*/\n@SinceKotlin("1.9")\npublic expect fun <T> setOf(element: T): Set<T>\n/\*\*\n \* Returns an empty read-only set. The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.emptyReadOnlySet\n \*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n/\*\*\n \* Returns an empty new [MutableSet].\n \* The returned set preserves the element iteration order.\n \* @sample samples.collections.Collections.Sets.emptyMutableSet\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n/\*\*\n \* Returns a new [MutableSet] with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* @sample samples.collections.Collections.Sets.mutableSet\n \*/\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n/\*\*\n \* Returns an empty new [HashSet].\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n/\*\*\n \* Returns a new [HashSet] with the given elements.\n \*/\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n/\*\*\n \* Returns an empty new [LinkedHashSet].\n \* @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n \*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\n/\*\*\n \* Returns a new [LinkedHashSet] with the given elements.\n \* Elements of the set are iterated in the order they were specified.\n \* @sample samples.collections.Collections.Sets.linkedHashSet\n \*/\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n/\*\*\n \* Returns a new read-only set either with single given element, if it is not null, or empty set if the element is null.\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.setOfNotNull\n \*/\n@SinceKotlin("1.4")\npublic fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n/\*\*\n \* Returns a new read-only set only with those given elements, that are not null.\n \* Elements of the set are iterated in the order they were specified.\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Collections.Sets.setOfNotNull\n \*/\n@SinceKotlin("1.4")\npublic fun <T : Any> setOfNotNull(vararg elements: T?): Set<T> {\n return elements.filterNotNullTo(LinkedHashSet())\n}\n/\*\*\n \* Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set with the same elements.\n \* The set passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an unspecified behavior.\n \* Elements of the set are iterated in the order they were added by the [builderAction].\n \* The returned set is serializable (JVM).\n \* @sample samples.collections.Builders.Sets.buildSetSample\n \*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY\_ONCE) }\n return buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>().-> Unit): Set<E>\n/\*\*\n \* Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction] and returning a read-only set

with the same elements.\n \* The set passed as a receiver to the [builderAction] is valid only inside that function.\n \* Using it outside of the function produces an unspecified behavior.\n \* [capacity] is used to hint the expected number of elements added in the [builderAction].\n \* Elements of the set are iterated in the order they were added by the [builderAction].\n \* The returned set is serializable (JVM).\n \* @throws IllegalArgumentException if the given [capacity] is negative.\n \* @sample samples.collections.Builders.Sets.buildSetSample

```

*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^@Suppress("DEPRECATION")^public inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {
    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }
    return buildSetInternal(capacity, builderAction)
}
^@PublishedApi^@SinceKotlin("1.3")^@kotlin.internal.InlineOnly^internal expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().-> Unit): Set<E>{
    /** Returns this Set if it's not `null` and the empty set otherwise.
    *^@kotlin.internal.InlineOnly^public inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()
    ^internal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {
        0 -> emptySet()
        1 -> setOf(iterator().next())
    }
    else -> this
}
^"/* Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
^/ Auto-generated file. DO NOT EDIT!
^package kotlin.ranges
^/* A range of values of type `Char`.
^public class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char>, OpenEndRange<Char> {
    override val start: Char get() = first
    override val endInclusive: Char get() = last
    ^ @Deprecated("Can throw an exception when it's impossible to represent the value with Char type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")
    ^@SinceKotlin("1.9")^ @WasExperimental(ExperimentalStdlibApi::class)
    override val endExclusive: Char get() {
        if (last == Char.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")
        return last + 1
    }
    override fun contains(value: Char): Boolean = first <= value && value <= last
    /** Checks whether the range is empty.
    * The range is empty if its start value is greater than the end value.
    ^ override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is CharRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * first.code + last.code)
    override fun toString(): String = "$first..$last"
    ^ companion object {
        /** An empty range of values of type Char.
        ^ public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())
    }
}
^/* A range of values of type `Int`.
^public class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int>, OpenEndRange<Int> {
    override val start: Int get() = first
    override val endInclusive: Int get() = last
    ^ @Deprecated("Can throw an exception when it's impossible to represent the value with Int type, for example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.")
    ^@SinceKotlin("1.9")^ @WasExperimental(ExperimentalStdlibApi::class)
    override val endExclusive: Int get() {
        if (last == Int.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")
        return last + 1
    }
    override fun contains(value: Int): Boolean = first <= value && value <= last
    /** Checks whether the range is empty.
    * The range is empty if its start value is greater than the end value.
    ^ override fun isEmpty(): Boolean = first > last
    override fun equals(other: Any?): Boolean =
        other is IntRange && (isEmpty() && other.isEmpty() || first == other.first && last == other.last)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 * first + last)
    override fun toString(): String = "$first..$last"
    ^ companion object {
        /** An empty range of values of type Int.
        ^ public val EMPTY: IntRange = IntRange(1, 0)
    }
}
^/* A range of values of type `Long`.
^public class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long>, OpenEndRange<Long> {
    override val start:

```



```

Long get() = first\n  override val endInclusive: Long get() = last\n
\n  @Deprecated("Can throw an exception when it's impossible to represent the value with Long type, for
example, when the range includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't
throw.")\n  @SinceKotlin("1.9")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  override val
endExclusive: Long get() {\n    if (last == Long.MAX_VALUE) error("Cannot return the exclusive upper bound
of a range that includes MAX_VALUE.")\n    return last + 1\n  }\n\n  override fun contains(value: Long):
Boolean = first <= value && value <= last\n\n  /**\n   * Checks whether the range is empty.\n   *\n   * The
range is empty if its start value is greater than the end value.\n   */\n  override fun isEmpty(): Boolean = first >
last\n\n  override fun equals(other: Any?): Boolean =\n    other is LongRange && (isEmpty() &&
other.isEmpty()) ||\n    first == other.first && last == other.last\n\n  override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n  override fun
toString(): String = "$first..$last"\n\n  companion object {\n    /** An empty range of values of type Long. */\n
    public val EMPTY: LongRange = LongRange(1, 0)\n  }\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport
kotlin.native.concurrent.SharedImmutable\n\nprivate const val LOWER_CASE_HEX_DIGITS =
"\n0123456789abcdef"\n\nprivate const val UPPER_CASE_HEX_DIGITS = "\n0123456789ABCDEF"\n\n// case-
insensitive parsing\n@SharedImmutable\nprivate val HEX_DIGITS_TO_DECIMAL = IntArray(128) { -1 }.apply
{\n  LOWER_CASE_HEX_DIGITS.forEachIndexed { index, char -> this[char.code] = index }\n
UPPER_CASE_HEX_DIGITS.forEachIndexed { index, char -> this[char.code]
= index }\n}\n\n// ----- format and parse ByteArray -----*\n * Formats
bytes in this array using the specified [format].\n * Note that only [HexFormat.upperCase] and
[HexFormat.BytesHexFormat] affect formatting.\n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.\n * @throws IllegalArgumentException if the result length is more than
[String] maximum capacity.\n */\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun
ByteArray.toHexString(format: HexFormat = HexFormat.Default): String = toHexString(0, size, format)\n\n/*\n *
Formats bytes in this array using the specified [HexFormat].\n * Note that only [HexFormat.upperCase] and
[HexFormat.BytesHexFormat] affect formatting.\n * @param startIndex the beginning (inclusive) of the
subrange to format, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to format, size of this
array by default.\n * @param format
the [HexFormat] to use for formatting, [HexFormat.Default] by default.\n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this array indices.\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n * @throws IllegalArgumentException if the result
length is more than [String] maximum capacity.\n */\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun
ByteArray.toHexString(\n  startIndex: Int = 0,\n  endIndex: Int = size,\n  format: HexFormat =
HexFormat.Default\n): String {\n  AbstractList.checkBoundsIndexes(startIndex, endIndex, size)\n\n  if (startIndex
== endIndex) {\n    return ""\n  }\n\n  val digits = if (format.upperCase) UPPER_CASE_HEX_DIGITS else
LOWER_CASE_HEX_DIGITS\n\n  val bytesFormat = format.bytes\n  val bytesPerLine =
bytesFormat.bytesPerLine\n  val bytesPerGroup = bytesFormat.bytesPerGroup\n  val bytePrefix =
bytesFormat.bytePrefix\n  val byteSuffix = bytesFormat.byteSuffix\n\n  val byteSeparator = bytesFormat.byteSeparator\n  val groupSeparator = bytesFormat.groupSeparator\n\n  val
formatLength = formattedStringLength(\n    totalBytes = endIndex - startIndex,\n    bytesPerLine,\n
bytesPerGroup,\n    groupSeparator.length,\n    byteSeparator.length,\n    bytePrefix.length,\n
byteSuffix.length\n  )\n\n  var indexInLine = 0\n  var indexInGroup = 0\n\n  return buildString(formatLength)
{\n    for (i in startIndex until endIndex) {\n      val byte = this@toHexString[i].toInt() and 0xFF\n\n      if
(indexInLine == bytesPerLine) {\n        append("\\n")\n        indexInLine = 0\n        indexInGroup =
0\n      } else if (indexInGroup == bytesPerGroup) {\n        append(groupSeparator)\n
indexInGroup = 0\n      }\n      if (indexInGroup != 0) {\n        append(byteSeparator)\n      }\n    }\n  }\n}

```

```

append(bytePrefix)\n
    append(digits[byte shr 4])\n        append(digits[byte and 0xF])\n        append(byteSuffix)\n\n
indexInGroup += 1\n        indexInLine += 1\n        }\n\n        check(formatLength == length)\n        }\n}\n\n//
Declared internal for testing\ninternal fun formattedStringLength(\n    totalBytes: Int,\n    bytesPerLine: Int,\n    bytesPerGroup: Int,\n    groupSeparatorLength: Int,\n    byteSeparatorLength: Int,\n    bytePrefixLength: Int,\n    byteSuffixLength: Int): Int {\n    require(totalBytes > 0)\n    // By contract bytesPerLine and bytesPerGroup are >
0\n\n    val lineSeparators = (totalBytes - 1) / bytesPerLine\n    val groupSeparators = run {\n        val
groupSeparatorsPerLine = (bytesPerLine - 1) / bytesPerGroup\n        val bytesInLastLine = (totalBytes %
bytesPerLine).let { if (it == 0) bytesPerLine else it }\n        val groupSeparatorsInLastLine = (bytesInLastLine - 1) /
bytesPerGroup\n        lineSeparators * groupSeparatorsPerLine + groupSeparatorsInLastLine\n
    }\n    val byteSeparators = totalBytes - 1 - lineSeparators - groupSeparators\n\n    // The max totalLength is
achieved when\n    // totalBytes, bytePrefix/Suffix/Separator.length = Int.MAX_VALUE.\n    // The result is 3 *
Int.MAX_VALUE * Int.MAX_VALUE + Int.MAX_VALUE,\n    // which is > Long.MAX_VALUE, but <
ULong.MAX_VALUE.\n\n    val totalLength: Long = lineSeparators.toLong() /* * lineSeparator.length = 1 */ +\n
    groupSeparators.toLong() * groupSeparatorLength.toLong() +\n        byteSeparators.toLong() *
byteSeparatorLength.toLong() +\n        totalBytes.toLong() * (bytePrefixLength.toLong() + 2L +
byteSuffixLength.toLong())\n\n    if (totalLength !in 0..Int.MAX_VALUE) {\n        // TODO: Common
OutOfMemoryError?\n        throw IllegalArgumentException("The resulting string length is too big:
${totalLength.toULong()}")\n    }\n\n    return totalLength.toInt()\n}\n\n/**\n * Parses bytes from this string using
the specified [HexFormat].\n */\n *
Note that only [HexFormat.BytesHexFormat] affects parsing,\n * and parsing is performed in case-insensitive
manner.\n * Also, any of the char sequences CRLF, LF and CR is considered a valid line separator.\n * @param
format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n * @throws
IllegalArgumentError if this string does not comply with the specified [format].\n
*/\n * @ExperimentalStdlibApi\n * @SinceKotlin("1.9")\n * public fun String.hexToByteArray(format: HexFormat =
HexFormat.Default): ByteArray = hexToByteArray(0, length, format)\n\n/**\n * Parses bytes from this string using
the specified [HexFormat].\n * Note that only [HexFormat.BytesHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n * Also, any of the char sequences CRLF, LF and CR is considered a valid
line separator.\n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n *
@param endIndex the end (exclusive) of the substring
to parse, length of this string by default.\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is
out of range of this string indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *
@throws IllegalArgumentException if the substring does not comply with the specified [format].\n
*/\n * @ExperimentalStdlibApi\n * // @SinceKotlin("1.9")\n * private fun String.hexToByteArray(\n    startIndex: Int =
0,\n    endIndex: Int = length,\n    format: HexFormat = HexFormat.Default): ByteArray {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n    if (startIndex == endIndex) {\n        return
byteArrayOf()\n    }\n\n    val bytesFormat = format.bytes\n    val bytesPerLine = bytesFormat.bytesPerLine\n    val
bytesPerGroup = bytesFormat.bytesPerGroup\n    val bytePrefix = bytesFormat.bytePrefix\n    val byteSuffix =
bytesFormat.byteSuffix\n    val byteSeparator
= bytesFormat.byteSeparator\n    val groupSeparator = bytesFormat.groupSeparator\n\n    val resultCapacity =
parsedByteArrayMaxSize(\n        stringLength = endIndex - startIndex,\n        bytesPerLine,\n        bytesPerGroup,\n
        groupSeparator.length,\n        byteSeparator.length,\n        bytePrefix.length,\n        byteSuffix.length)\n\n
val result = ByteArray(resultCapacity)\n\n    var i = startIndex\n    var byteIndex = 0\n    var indexInLine = 0\n    var
indexInGroup = 0\n\n    while (i < endIndex) {\n        if (indexInLine == bytesPerLine) {\n            i =
checkNewLineAt(i, endIndex)\n            indexInLine = 0\n            indexInGroup = 0\n        } else if (indexInGroup
== bytesPerGroup) {\n            i = checkContainsAt(groupSeparator, i, endIndex, "group separator")\n
            indexInGroup = 0\n        } else if (indexInGroup != 0) {\n            i = checkContainsAt(byteSeparator, i, endIndex,

```

```

"byte separator")\n    }\n    indexInLine
+= 1\n    indexInGroup += 1\n    i = checkContainsAt(bytePrefix, i, endIndex, "byte prefix")\n\n
checkHexLength(i, (i + 2).coerceAtMost(endIndex), maxDigits = 2, requireMaxLength = true)\n\n
result[byteIndex++] = ((decimalFromHexDigitAt(i++) shl 4) or decimalFromHexDigitAt(i++)).toByte()\n\n    i =
checkContainsAt(byteSuffix, i, endIndex, "byte suffix")\n    }\n\n    return if (byteIndex == result.size) result else
result.copyOf(byteIndex)\n}\n\n// Declared internal for testing\ninternal fun parsedByteArrayMaxSize(\n
stringLength: Int,\n bytesPerLine: Int,\n bytesPerGroup: Int,\n groupSeparatorLength: Int,\n
byteSeparatorLength: Int,\n bytePrefixLength: Int,\n byteSuffixLength: Int)\n): Int {\n    require(stringLength >
0)\n    // By contract bytesPerLine and bytesPerGroup are > 0\n    // The max charsPerSet is achieved when\n    //
bytesPerLine/Group, bytePrefix/Suffix/SeparatorLength = Int.MAX_VALUE.\n    // The result is 3
* Int.MAX_VALUE * Int.MAX_VALUE + Int.MAX_VALUE,\n    // which is > Long.MAX_VALUE, but <
ULong.MAX_VALUE.\n\n    val charsPerByte = bytePrefixLength + 2L + byteSuffixLength\n\n    val
charsPerGroup = charsPerSet(charsPerByte, bytesPerGroup, byteSeparatorLength)\n\n    val charsPerLine = if
(bytesPerLine <= bytesPerGroup) {\n        charsPerSet(charsPerByte, bytesPerLine, byteSeparatorLength)\n    } else
{\n        val groupsPerLine = bytesPerLine / bytesPerGroup\n        var result = charsPerSet(charsPerGroup,
groupsPerLine, groupSeparatorLength)\n        val bytesPerLastGroupInLine = bytesPerLine % bytesPerGroup\n
if (bytesPerLastGroupInLine != 0) {\n            result += groupSeparatorLength\n            result +=
charsPerSet(charsPerByte, bytesPerLastGroupInLine, byteSeparatorLength)\n        }\n        result\n    }\n\n    var
numberOfChars = stringLength.toLong()\n\n    // assume one-character line separator to maximize size\n    val
wholeLines = wholeElementsPerSet(numberOfChars,
charsPerLine, 1)\n    numberOfChars -= wholeLines * (charsPerLine + 1)\n\n    val wholeGroupsInLastLine =
wholeElementsPerSet(numberOfChars, charsPerGroup, groupSeparatorLength)\n    numberOfChars -=
wholeGroupsInLastLine * (charsPerGroup + groupSeparatorLength)\n\n    val wholeBytesInLastGroup =
wholeElementsPerSet(numberOfChars, charsPerByte, byteSeparatorLength)\n    numberOfChars -=
wholeBytesInLastGroup * (charsPerByte + byteSeparatorLength)\n\n    // If numberOfChars is bigger than zero
here:\n    // * CRLF might have been used as line separator\n    // * or there are dangling characters at the end of
string\n    // Anyhow, have a spare capacity to let parsing continue.\n    // In case of dangling characters it will throw
later on with a correct message.\n    val spare = if (numberOfChars > 0L) 1 else 0\n\n    // The number of parsed
bytes will always fit into Int, each parsed byte consumes at least 2 chars of the input string.\n    return ((wholeLines
* bytesPerLine)
+ (wholeGroupsInLastLine * bytesPerGroup) + wholeBytesInLastGroup + spare).toInt()\n}\n\nprivate fun
charsPerSet(charsPerElement: Long, elementsPerSet: Int, elementSeparatorLength: Int): Long {\n
require(elementsPerSet > 0)\n    return (charsPerElement * elementsPerSet) + (elementSeparatorLength *
(elementsPerSet - 1L))\n}\n\nprivate fun wholeElementsPerSet(charsPerSet: Long, charsPerElement: Long,
elementSeparatorLength: Int): Long {\n    return if (charsPerSet <= 0 || charsPerElement <= 0) 0\n    else
(charsPerSet + elementSeparatorLength) / (charsPerElement + elementSeparatorLength)\n}\n\nprivate fun
String.checkNewLineAt(index: Int, endIndex: Int): Int {\n    return if (this[index] == '\r') {\n        if (index + 1 <
endIndex && this[index + 1] == '\n') index + 2 else index + 1\n    } else if (this[index] == '\n') {\n        index + 1\n
} else {\n        throw NumberFormatException("Expected a new line at index $index, but was ${this[index]}")\n
}\n}\n}\n\n// -----
format and parse Byte -----*\n * Formats this `Byte` value using the specified [format].\n *\n * Note that only [HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n *\n * @param
format the [HexFormat] to use for formatting, [HexFormat.Default] by default.\n\n
*/\n\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun Byte.toHexString(format: HexFormat =
HexFormat.Default): String = toLong().toHexStringImpl(format, bits = 8)\n\n**\n * Parses a `Byte` value from this
string using the specified [format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and
parsing is performed in case-insensitive manner.\n *\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default] by default.\n *\n * @throws IllegalArgumentException if this string does not comply with the

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specified [format].\n *\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun String.hexToByte(format:
HexFormat = HexFormat.Default):
Byte = hexToByte(0, length, format)\n\n**\n * Parses a `Byte` value from this string using the specified
[format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in
case-insensitive manner.\n *\n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by
default.\n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n *\n@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\nprivate fun
String.hexToByte(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Byte =\n
hexToLongImpl(startIndex,
endIndex, format, maxDigits = 2).toByte()\n\n// ----- format and parse Short -----
\n\n**\n * Formats this `Short` value using the specified [format].\n *\n * Note that only [HexFormat.upperCase]
and [HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the [HexFormat] to use for
formatting, [HexFormat.Default] by default.\n *\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun
Short.toHexString(format: HexFormat = HexFormat.Default): String = toLong().toHexStringImpl(format, bits =
16)\n\n**\n * Parses a `Short` value from this string using the specified [format].\n *\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n *\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IllegalArgumentException if this string does not comply with the specified [format].\n
*\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic
fun String.hexToShort(format: HexFormat = HexFormat.Default): Short = hexToShort(0, length, format)\n\n**\n *
Parses a `Short` value from this string using the specified [format].\n *\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n *\n *
@param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n * @param endIndex the end
(exclusive) of the substring to parse, length of this string by default.\n * @param format the [HexFormat] to use for
parsing, [HexFormat.Default] by default.\n *\n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of this string indices.\n * @throws IllegalArgumentException when `startIndex >
endIndex`.\n * @throws IllegalArgumentException if the substring does not comply with the specified [format].\n
*\n@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\nprivate fun String.hexToShort(startIndex: Int
= 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Short =\n
hexToLongImpl(startIndex,
endIndex, format, maxDigits = 4).toShort()\n\n// ----- format and parse Int -----
\n\n**\n * Formats this `Int` value using the specified [format].\n *\n * Note that only [HexFormat.upperCase] and
[HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.\n *\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun
Int.toHexString(format: HexFormat = HexFormat.Default): String = toLong().toHexStringImpl(format, bits =
32)\n\n**\n * Parses an `Int` value from this string using the specified [format].\n *\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n *\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IllegalArgumentException if
this string does not comply with the specified [format].\n
*\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun String.hexToInt(format: HexFormat =
HexFormat.Default): Int = hexToInt(0, length, format)\n\n**\n * Parses an `Int` value from this string using the
specified [format].\n *\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n *\n * @param startIndex the beginning (inclusive) of the substring to parse,
0 by default.\n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n
* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws

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IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n */\n@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\nprivate
fun String.hexToInt(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Int =\n
hexToLongImpl(startIndex, endIndex, format, maxDigits = 8).toInt()\n\n// ----- format and parse
Long -----\n\n/**\n * Formats this `Long` value using the specified [format].\n * Note that only
[HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n * @param format the
[HexFormat] to use for formatting, [HexFormat.Default] by default.\n
*/\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun Long.toHexString(format: HexFormat =
HexFormat.Default): String = toHexStringImpl(format, bits = 64)\n\n/**\n * Parses a `Long` value from this string
using the specified [format].\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing
is performed in case-insensitive manner.\n * @param format the [HexFormat] to use for parsing,
[HexFormat.Default]
by default.\n * @throws IllegalArgumentException if this string does not comply with the specified [format].\n
*/\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic fun String.hexToLong(format: HexFormat =
HexFormat.Default): Long = hexToLong(0, length, format)\n\n/**\n * Parses a `Long` value from this string using
the specified [format].\n * Note that only [HexFormat.NumberHexFormat] affects parsing,\n * and parsing is
performed in case-insensitive manner.\n * @param startIndex the beginning (inclusive) of the substring to parse,
0 by default.\n * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n
* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n */\n@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\nprivate fun
String.hexToLong(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): Long =\n
hexToLongImpl(startIndex, endIndex, format, maxDigits = 16)\n\n// ----- private format and parse
functions -----\n\n@ExperimentalStdlibApi\nprivate fun Long.toHexStringImpl(format:
HexFormat, bits: Int): String {\n    require(bits and 0x3 == 0)\n    val digits = if (format.upperCase)
UPPER_CASE_HEX_DIGITS else LOWER_CASE_HEX_DIGITS\n    val value = this\n    val prefix =
format.number.prefix\n    val suffix = format.number.suffix\n    val formatLength = prefix.length + (bits shr 2) +
suffix.length\n    var removeZeros = format.number.removeLeadingZeros\n    return buildString(formatLength)
{\n        append(prefix)\n        var shift = bits\n        while (shift > 0) {\n            shift -= 4\n            val decimal
= ((value shr shift) and 0xF).toInt()\n            removeZeros = removeZeros && decimal == 0 && shift > 0\n
if (!removeZeros) {\n                append(digits[decimal])\n            }\n        }\n        append(suffix)\n
}\n}\n\n@ExperimentalStdlibApi\nprivate fun String.hexToLongImpl(startIndex: Int = 0, endIndex: Int = length,
format: HexFormat, maxDigits: Int): Long {\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
val prefix = format.number.prefix\n    val suffix = format.number.suffix\n    if (prefix.length + suffix.length >=
endIndex - startIndex) {\n        throw NumberFormatException(\n            "Expected a hexadecimal number with
prefix '$prefix' and suffix '$suffix', but was ${substring(startIndex, endIndex)}"\n        )\n    }\n    val
digitsStartIndex = checkContainsAt(prefix, startIndex, endIndex, "prefix")\n    val digitsEndIndex = endIndex -
suffix.length\n    checkContainsAt(suffix, digitsEndIndex, endIndex,
"suffix")\n    checkHexLength(digitsStartIndex, digitsEndIndex, maxDigits, requireMaxLength = false)\n    var
result = 0L\n    for (i in digitsStartIndex until digitsEndIndex) {\n        result = (result shl 4) or
decimalFromHexDigitAt(i).toLong()\n    }\n    return result\n}\n\nprivate fun String.checkContainsAt(part: String,
index: Int, endIndex: Int, partName: String): Int {\n    val end = index + part.length\n    if (end > endIndex ||
!regionMatches(index, part, 0, part.length, ignoreCase = true)) {\n        throw NumberFormatException(\n
"Expected $partName '$part' at index $index, but was ${this.substring(index,
end.coerceAtMost(endIndex))}"
)\n    }\n    return end\n}\n\nprivate fun String.checkHexLength(startIndex:
Int, endIndex: Int, maxDigits: Int, requireMaxLength: Boolean) {\n    val digitsLength = endIndex - startIndex\n

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val isCorrectLength = if (requireMaxLength) digitsLength == maxDigits else digitsLength <= maxDigits\n  if
(!isCorrectLength)
  {\n    val specifier = if (requireMaxLength) \"exactly\" else \"at most\"\n    val substring = substring(startIndex,
endIndex)\n    throw NumberFormatException(\n      \"Expected $specifier $maxDigits hexadecimal digits at
index $startIndex, but was $substring of length $digitsLength\"\n    )\n  }\n\nprivate fun
String.decimalFromHexDigitAt(index: Int): Int {\n  val code = this[index].code\n  if (code > 127 ||
HEX_DIGITS_TO_DECIMAL[code] < 0) {\n    throw NumberFormatException(\"Expected a hexadecimal digit
at index $index, but was ${this[index]}\")\n  }\n  return HEX_DIGITS_TO_DECIMAL[code]\n}\n\n\"/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"PLATFOR
M_CLASS_MAPPED_TO_KOTLIN\")\n\npackage
kotlin.text\n\n/*\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(): Byte? =
toByteOrNull(radix = 10)\n\n/*\n * Parses the string as a signed [Byte] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\n * @throws IllegalArgumentException when [radix] is
not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun
String.toByteOrNull(radix: Int): Byte? {\n  val int = this.toIntOrNull(radix) ?: return null\n  if (int <
Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n  return int.toByte()\n}\n\n/*\n * Parses the string as
a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/*\n *
Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of
a number.\n */\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(radix: Int): Short? {\n  val int =
this.toIntOrNull(radix) ?: return null\n  if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n
return int.toShort()\n}\n\n/*\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string
is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(): Int? =
toIntOrNull(radix = 10)\n\n/*\n * Parses the string as an [Int] number and returns the result\n * or `null` if the
string is not a valid representation of a number.\n */\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic
fun String.toIntOrNull(radix: Int): Int? {\n  checkRadix(radix)\n\n  val length = this.length\n  if (length == 0)
return null\n\n  val start: Int\n  val isNegative: Boolean\n  val limit: Int\n\n  val firstChar = this[0]\n  if
(firstChar < '0') { // Possible leading sign\n    if (length == 1) return null // non-digit (possible sign) only, no
digits after\n\n    start = 1\n\n    if (firstChar == '-') {\n      isNegative = true\n      limit =
Int.MIN_VALUE\n    } else if (firstChar == '+') {\n      isNegative = false\n      limit = -
Int.MAX_VALUE\n    } else\n      return null\n  } else {\n    start = 0\n    isNegative = false\n    limit
= -Int.MAX_VALUE\n  }\n\n  val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n  var limitBeforeMul =
limitForMaxRadix\n  var result = 0\n  for (i in start until length) {\n    val digit = digitOf(this[i], radix)\n\n
if (digit < 0) return null\n\n    if (result < limitBeforeMul) {\n      if (limitBeforeMul == limitForMaxRadix) {\n
limitBeforeMul
= limit / radix\n\n      if (result < limitBeforeMul) {\n        return null\n      }\n    } else {\n
return null\n    }\n  }\n\n  result *= radix\n\n  if (result < limit + digit) return null\n\n  result -= digit\n
}\n\n  return if (isNegative) result else -result\n}\n\n/*\n * Parses the string as a [Long] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/*\n * Parses
the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n */\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n */\n@SinceKotlin(\"1.1\")\npublic

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fun String.toLongOrNull(radix: Int): Long? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val start: Int
    val isNegative: Boolean
    val limit: Long
    val firstChar = this[0]
    if (firstChar < '0') { // Possible leading sign
        if (length == 1) return null // non-digit (possible sign) only, no digits after
        start = 1
        if (firstChar == '-') {
            isNegative = true
            limit = Long.MIN_VALUE
        } else if (firstChar == '+') {
            isNegative = false
            limit = Long.MAX_VALUE
        } else {
            return null
        }
    } else {
        start = 0
        isNegative = false
        limit = -Long.MAX_VALUE
    }
    val limitForMaxRadix = (-Long.MAX_VALUE) / 36
    var limitBeforeMul = limitForMaxRadix
    var result = 0L
    for (i in start until length) {
        val digit = digitOf(this[i], radix)
        if (digit < 0) return null
        if (result < limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                limitBeforeMul = limit / radix
            }
            if (result < limitBeforeMul) {
                return null
            }
        } else {
            return null
        }
        result *= radix
        if (result < limit + digit) return null
        result -= digit
    }
    return if (isNegative) result else -result
}

internal fun numberFormatError(input: String): Nothing = throw NumberFormatException("Invalid number format: '$input'")

/*
 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.time
import kotlin.contracts.*
import kotlin.jvm.JvmInline
import kotlin.math.*

/* Represents the amount of time one instant of time is away from another instant.
 * A negative duration is possible in a situation when the second instant is earlier than the first one.
 * The type can store duration values up to 00b1146 years with nanosecond precision, and up to 00b1146 million years with millisecond precision.
 * If a duration-returning operation provided in `kotlin.time` produces a duration value that doesn't fit into the above range, the returned `Duration` is infinite.
 * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.
 * To construct a duration use either the extension function [toDuration], or the extension properties [hours], [minutes], [seconds], and so on, available on [Int], [Long], and [Double] numeric types.
 * To get the value of this duration expressed in a particular [duration units][DurationUnit] use the functions [toInt], [toLong], and [toDouble] or the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.
 */
@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
@JvmInline
public value class Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {
    private val value: Long
    get() = rawValue shr 1
    private inline val unitDiscriminator: Int
    get() = rawValue.toInt() and 1
    private fun isInNanos() = unitDiscriminator == 0
    private fun isInMillis() = unitDiscriminator == 1
    private val storageUnit
    get() = if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS

    init {
        if (durationAssertionsEnabled) {
            if (isInNanos()) {
                if (value !in -MAX_NANOS..MAX_NANOS) throw AssertionError("$value ns is out of nanoseconds range")
            } else {
                if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("$value ms is out of milliseconds range")
                if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError("$value ms is denormalized")
            }
        }
    }
    companion object {
        /** The duration equal to exactly 0 seconds. */
        public val ZERO: Duration = Duration(0L)
        /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */
        public val INFINITE: Duration = durationOfMillis(MAX_MILLIS)
        internal val NEG_INFINITE: Duration = durationOfMillis(-MAX_MILLIS)
        /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */
        @ExperimentalTime
        public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double = convertDurationUnit(value, sourceUnit, targetUnit)
        // Duration construction extension properties in Duration companion scope
        /** Returns a [Duration] equal to this [Int] number of nanoseconds. */
        @kotlin.internal.InlineOnly
        public inline val Int.nanoseconds
        get() = toDuration(DurationUnit.NANOSECONDS)
        /** Returns a [Duration] equal to this [Long] number of nanoseconds. */
        @kotlin.internal.InlineOnly
        public inline val Long.nanoseconds
        get() = toDuration(DurationUnit.NANOSECONDS)
    }
}

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Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n    /**\n    * Returns a [Duration]
equal to this [Double] number of nanoseconds.\n    *\n    * Depending on its magnitude, the value is rounded
to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this
[Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.nanoseconds
get() = toDuration(DurationUnit.NANOSECONDS)\n\n\n    /** Returns a [Duration] equal to this [Int] number of
microseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n\n    /**
Returns a [Duration] equal to this [Long] number of microseconds. */\n    @kotlin.internal.InlineOnly\n
public inline val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n    /**\n    *
Returns a [Duration] equal to this [Double] number of microseconds.\n    *\n    * Depending on its magnitude,
the value is rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n\n    /** Returns a
[Duration] equal to this [Int] number of milliseconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n    /** Returns a [Duration] equal to this
[Long] number of milliseconds. */\n    @kotlin.internal.InlineOnly\n    public
inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n    /**\n    * Returns a
[Duration] equal to this [Double] number of milliseconds.\n    *\n    * Depending on its magnitude, the value
is rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n\n    /** Returns a
[Duration] equal to this [Int] number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n    /** Returns a [Duration] equal to this [Long]
number of seconds. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n\n    /**\n    * Returns a [Duration] equal to this [Double] number
of seconds.\n    *\n    * Depending on its magnitude, the value is rounded to an integer number of
nanoseconds or milliseconds.\n    *\n    * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public inline val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n\n\n    /** Returns a [Duration] equal to this [Int] number of minutes. */\n
    @kotlin.internal.InlineOnly\n    public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n
    /** Returns a [Duration] equal to this [Long] number of minutes. */\n    @kotlin.internal.InlineOnly\n
public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n    /**\n    * Returns a
[Duration] equal to this [Double] number of minutes.\n    *\n    * Depending on its magnitude, the value is
rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n\n    /** Returns a [Duration] equal to
this [Int] number of hours. */\n    @kotlin.internal.InlineOnly\n    public inline val Int.hours get() =
toDuration(DurationUnit.HOURS)\n\n\n    /** Returns a [Duration] equal to this [Long] number of hours. */\n
    @kotlin.internal.InlineOnly\n    public inline val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n\n
    /**\n    * Returns a [Duration] equal to this [Double] number of hours.\n    *\n    * Depending on its
magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n    *\n    * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n    */\n    @kotlin.internal.InlineOnly\n    public
inline val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n\n    /** Returns a [Duration] equal to
this [Int] number of days. */\n    @kotlin.internal.InlineOnly\n    public
inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n\n    /** Returns a [Duration] equal to this [Long]
number of days. */\n    @kotlin.internal.InlineOnly\n    public inline val Long.days get() =
toDuration(DurationUnit.DAYS)\n\n\n    /**\n    * Returns a [Duration] equal to this [Double] number of days.\n
    *\n    * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or

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milliseconds.\n      *\n      * @throws IllegalArgumentException if this [Double] value is `NaN`.\n      */\n
@kotlin.internal.InlineOnly\n      public inline val Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n
// deprecated static factory functions\n\n      /** Returns a [Duration] representing the specified [value] number of
nanoseconds. */\n      @SinceKotlin("1.5")\n
      @ExperimentalTime\n      @Deprecated(\n      "Use 'Int.nanoseconds' extension property from
Duration.Companion instead.\n      ", ReplaceWith(\n      "value.nanoseconds\n      ",
"\n      kotlin.time.Duration.Companion.nanoseconds\n      "))\n      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ",
errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun nanoseconds(value: Int): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of nanoseconds. */\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
      @Deprecated(\n      "Use 'Long.nanoseconds' extension property from Duration.Companion instead.\n      ",
ReplaceWith(\n      "value.nanoseconds\n      ", "\n      kotlin.time.Duration.Companion.nanoseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun
nanoseconds(value: Long): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n      /**\n      *
Returns a [Duration] representing
the specified [value] number of nanoseconds.\n      *\n      * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n      *\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
      @Deprecated(\n      "Use 'Double.nanoseconds' extension property from Duration.Companion instead.\n      ",
ReplaceWith(\n      "value.nanoseconds\n      ", "\n      kotlin.time.Duration.Companion.nanoseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun
nanoseconds(value: Double): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n      /** Returns a
[Duration] representing the specified [value] number of microseconds. */\n      @SinceKotlin("1.5")\n
      @ExperimentalTime\n      @Deprecated(\n      "Use 'Int.microseconds' extension property from Duration.Companion
instead.\n      ", ReplaceWith(\n      "value.microseconds\n      ", "\n      kotlin.time.Duration.Companion.microseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince
= "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n      /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n
      @Deprecated(\n      "Use 'Long.microseconds' extension property from Duration.Companion instead.\n      ",
ReplaceWith(\n      "value.microseconds\n      ", "\n      kotlin.time.Duration.Companion.microseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun
microseconds(value: Long): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n      /**\n      *
Returns a [Duration] representing the specified [value] number of microseconds.\n      *\n      * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n      *\n      @SinceKotlin("1.5")\n
      @ExperimentalTime\n      @Deprecated(\n      "Use
'Double.microseconds' extension property from Duration.Companion instead.\n      ",
ReplaceWith(\n      "value.microseconds\n      ", "\n      kotlin.time.Duration.Companion.microseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun
microseconds(value: Double): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n      /** Returns
a [Duration] representing the specified [value] number of milliseconds. */\n      @SinceKotlin("1.5")\n
      @ExperimentalTime\n      @Deprecated(\n      "Use 'Int.milliseconds' extension property from Duration.Companion
instead.\n      ", ReplaceWith(\n      "value.milliseconds\n      ", "\n      kotlin.time.Duration.Companion.milliseconds\n      "))\n
      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ", errorSince = "\n      1.8\n      ", hiddenSince = "\n      1.9\n      ")
      public fun
milliseconds(value: Int): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n      /** Returns a
[Duration] representing the specified [value]
number of milliseconds. */\n      @SinceKotlin("1.5")\n      @ExperimentalTime\n      @Deprecated(\n      "Use
'Long.milliseconds' extension property from Duration.Companion instead.\n      ", ReplaceWith(\n      "value.milliseconds\n      ",
"\n      kotlin.time.Duration.Companion.milliseconds\n      "))\n      @DeprecatedSinceKotlin(warningSince = "\n      1.6\n      ",

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errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun milliseconds(value: Long): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n    /**\n    * Returns a [Duration] representing the
specified [value] number of milliseconds.\n    *\n    * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n    */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use 'Double.milliseconds' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\",
errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n\n    /** Returns a [Duration] representing the specified
[value] number of seconds. */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use
'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\",
\"kotlin.time.Duration.Companion.seconds\"))\n    @DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n    public fun seconds(value: Int): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n\n    /** Returns a [Duration] representing the specified [value]
number of seconds. */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use
'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\",
\"kotlin.time.Duration.Companion.seconds\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
seconds(value: Long): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n    /**\n    * Returns a
[Duration] representing the specified [value] number of seconds.\n    *\n    * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use 'Double.seconds' extension property from Duration.Companion
instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n    /** Returns a [Duration]
representing the specified [value] number of minutes. */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n
@Deprecated(\"Use
'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\",
\"kotlin.time.Duration.Companion.minutes\"))\n    @DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n    public fun minutes(value: Int): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n\n    /** Returns a [Duration] representing the specified [value]
number of minutes. */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n    @Deprecated(\"Use
'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\",
\"kotlin.time.Duration.Companion.minutes\"))\n    @DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n    public fun minutes(value: Long): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n\n    /**\n    * Returns a [Duration] representing the specified
[value] number of minutes.\n    *\n    * @throws IllegalArgumentException
if the provided `Double` [value] is `NaN`.\n    */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n
@Deprecated(\"Use 'Double.minutes' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
minutes(value: Double): Duration = value.toDuration(DurationUnit.MINUTES)\n\n\n    /** Returns a [Duration]
representing the specified [value] number of hours. */\n    @SinceKotlin(\"1.5\")\n    @ExperimentalTime\n
@Deprecated(\"Use 'Int.hours' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince = \"1.8\", hiddenSince = \"1.9\")\n    public fun
hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n\n

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    /** Returns a [Duration] representing the specified [value] number of hours. */
    @SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Long.hours' extension property from Duration.Companion instead.", ReplaceWith("value.hours", "kotlin.time.Duration.Companion.hours"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun hours(value: Long): Duration = value.toDuration(DurationUnit.HOURS)
    /** Returns a [Duration] representing the specified [value] number of hours.
     * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.
     */
    @SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Double.hours' extension property from Duration.Companion instead.", ReplaceWith("value.hours", "kotlin.time.Duration.Companion.hours"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)
    /** Returns a [Duration] representing the specified [value] number of days.
     * @SinceKotlin("1.5")
     * @ExperimentalTime
     * @Deprecated("Use 'Int.days' extension property from Duration.Companion instead.", ReplaceWith("value.days", "kotlin.time.Duration.Companion.days"))
     */
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)
    /** Returns a [Duration] representing the specified [value] number of days.
     * @SinceKotlin("1.5")
     * @ExperimentalTime
     * @Deprecated("Use 'Long.days' extension property from Duration.Companion instead.", ReplaceWith("value.days", "kotlin.time.Duration.Companion.days"))
     */
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun days(value: Long): Duration = value.toDuration(DurationUnit.DAYS)
    /** Returns a [Duration] representing the specified [value] number of days.
     * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.
     */
    @SinceKotlin("1.5")
    @ExperimentalTime
    @Deprecated("Use 'Double.days' extension property from Duration.Companion instead.", ReplaceWith("value.days", "kotlin.time.Duration.Companion.days"))
    @DeprecatedSinceKotlin(warningSince = "1.6", errorSince = "1.8", hiddenSince = "1.9")
    public fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)
    /** Parses a string that represents a duration and returns the parsed [Duration] value.
     * The following formats are accepted:
     * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].
     * - The format of string returned by the default [Duration.toString] and `toString` in a specific unit, e.g. `10s`, `1h 30m` or `-(1h 30m)`.
     * @throws IllegalArgumentException if the string doesn't represent a duration in any of the supported formats.
     */
    @sample samples.time.Durations.parse
    public fun parse(value: String): Duration = try {
        parseDuration(value, strictIso = false)
    } catch (e: IllegalArgumentException) {
        throw IllegalArgumentException("Invalid duration string format: '$value'.", e)
    }
    /** Parses a string that represents a duration in a restricted ISO-8601 composite representation and returns the parsed [Duration] value.
     * Composite representation is a relaxed version of ISO-8601 duration format that supports
     * negative durations and negative values of individual components.
     * The following restrictions are imposed:
     * - The only allowed non-time designator is days (`D`). `Y` (years), `W` (weeks), and `M` (months) are not supported.
     * - Day is considered to be exactly 24 hours (24-hour clock time scale).
     * - Alternative week-based representation `[P][number][W]` is not supported.
     * @throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.
     */
    @sample samples.time.Durations.parseIsoString
    public fun parseIsoString(value: String): Duration = try {
        parseDuration(value, strictIso = true)
    } catch (e: IllegalArgumentException) {
        throw IllegalArgumentException("Invalid ISO duration string format: '$value'.", e)
    }
    /** Parses a string that represents a duration and returns the parsed [Duration] value,

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    * or `null` if the string doesn't represent a duration in any of the supported formats.\n
    * The following formats are accepted:\n
    * - Restricted ISO-8601 duration composite representation, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n
    * - The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n
    * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n
    *
    @sample samples.time.Durations.parse\n
    *^ public fun parseOrNull(value: String): Duration? = try {\n
        parseDuration(value, strictIso = false)\n
    } catch (e: IllegalArgumentException) {\n
        null\n
    }\n
    /**\n
    * Parses a string that represents a duration in restricted ISO-8601 composite representation\n
    * and returns the parsed [Duration] value or `null` if the string doesn't represent a duration in the format\n
    * acceptable by [parseIsoString].\n
    *\n
    * @sample samples.time.Durations.parseIsoString\n
    *^ public fun\n
    parseIsoStringOrNull(value: String): Duration? = try {\n
        parseDuration(value, strictIso = true)\n
    } catch\n
    (e: IllegalArgumentException) {\n
        null\n
    }\n
    }\n
    // arithmetic operators\n
    /** Returns the\n
    negative of this value. *\n
    public operator fun unaryMinus(): Duration = durationOf(-value,\n
    unitDiscriminator)\n
    /**\n
    * Returns a duration whose value is the sum of this and [other] duration values.\n
    *\n
    * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
    * e.g. when adding infinite durations of different sign.\n
    *\n
    public operator fun plus(other: Duration):\n
    Duration {\n
        when {\n
            this.isInfinite() -> {\n
                if (other.isFinite() || (this.rawValue xor\n
                other.rawValue >= 0))\n
                    return this\n
                else\n
                    throw IllegalArgumentException("Summing infinite durations of different signs yields an\n
                undefined result.")\n
            }\n
            other.isInfinite() -> return other\n
        }\n
        return when {\n
            this.unitDiscriminator == other.unitDiscriminator -> {\n
                val result = this.value + other.value // never\n
                overflows long, but can overflow long63\n
                when {\n
                    isInNanos() ->\n
                    durationOfNanosNormalized(result)\n
                    else ->\n
                    durationOfMillisNormalized(result)\n
                }\n
            }\n
            this.isInMillis() ->\n
            addValuesMixedRanges(this.value, other.value)\n
            else ->\n
            addValuesMixedRanges(other.value, this.value)\n
        }\n
    }\n
    private fun\n
    addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n
        val otherMillis =\n
        nanosToMillis(otherNanos)\n
        val\n
        resultMillis = thisMillis + otherMillis\n
        return if (resultMillis in -\n
        MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
            val otherNanoRemainder = otherNanos -\n
            millisToNanos(otherMillis)\n
            durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n
        }\n
        else {\n
            durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n
        }\n
    }\n
    /**\n
    * Returns a duration whose value is the difference between this and [other] duration values.\n
    *\n
    * @throws\n
    IllegalArgumentException if the operation results in an undefined value for the given arguments,\n
    * e.g. when\n
    subtracting infinite durations of the same sign.\n
    *\n
    public operator fun minus(other: Duration): Duration =\n
    this + (-other)\n
    /**\n
    * Returns a duration whose value is this duration value multiplied by the given [scale]\n
    number.\n
    *\n
    * @throws IllegalArgumentException if the operation results in an undefined value for the given\n
    arguments,\n
    * e.g. when multiplying an infinite duration by zero.\n
    *\n
    public operator fun times(scale:\n
    Int): Duration {\n
        if (isInfinite()) {\n
            return when {\n
                scale == 0 -> throw\n
                IllegalArgumentException("Multiplying infinite duration by zero yields an undefined result.")\n
                scale > 0\n
                -> this\n
                else -> -this\n
            }\n
        }\n
        if (scale == 0) return ZERO\n
        val value = value\n
        val result = value * scale\n
        return if (isInNanos()) {\n
            if (value in (MAX_NANOS /\n
            Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n
                // can't overflow nanos range for any\n
                scale\n
                durationOfNanos(result)\n
            } else {\n
                if (result / scale == value) {\n
                    durationOfNanosNormalized(result)\n
                } else {\n
                    val millis = nanosToMillis(value)\n
                    val remNanos = value - millisToNanos(millis)\n
                    val resultMillis = millis * scale\n
                    val totalMillis = resultMillis + nanosToMillis(remNanos *\n
                    scale)\n
                    if (resultMillis / scale == millis && totalMillis xor resultMillis >= 0) {\n
                        durationOfMillis(totalMillis.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n
                    } else {\n
                        if

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(value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n
}\n      }\n      }\n      } else
{\n      if (result / scale == value) {\n      durationOfMillis(result.coerceIn(-
MAX_MILLIS..MAX_MILLIS))\n      } else {\n      if (value.sign * scale.sign > 0) INFINITE else
NEG_INFINITE\n      }\n      }\n      }\n      } /**\n * Returns a duration whose value is this duration value
multiplied by the given [scale] number.\n * The operation may involve rounding when the result cannot be
represented exactly with a [Double]
number.\n * @throws IllegalArgumentException if the operation results in an undefined value for the
given arguments,\n * e.g. when multiplying an infinite duration by zero.\n */\n public operator fun
times(scale: Double): Duration {\n      val intScale = scale.roundToInt()\n      if (intScale.toDouble() == scale) {\n
return times(intScale)\n      }\n      val unit = storageUnit\n      val result = toDouble(unit) * scale\n
return result.toDuration(unit)\n      }\n      /**\n * Returns a duration whose value is this duration value divided by
the given [scale] number.\n * @throws IllegalArgumentException if the operation results in an undefined
value for the given arguments,\n * e.g. when dividing zero duration by zero.\n */\n public operator fun
div(scale: Int): Duration {\n      if (scale == 0) {\n      return when {\n      isPositive() -> INFINITE\n
isNegative() -> NEG_INFINITE\n
      else -> throw IllegalArgumentException("Dividing zero duration by zero yields an undefined result.")\n
      }\n      }\n      if (isInNanos()) {\n      return durationOfNanos(value / scale)\n      } else {\n      if
(isInfinite())\n      return this * scale.sign\n      val result = value / scale\n      if (result in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n      val rem = millisToNanos(value - (result *
scale)) / scale\n      return durationOfNanos(millisToNanos(result) + rem)\n      }\n      return
durationOfMillis(result)\n      }\n      }\n      /**\n * Returns a duration whose value is this duration value divided
by the given [scale] number.\n * @throws IllegalArgumentException if the operation results in an
undefined value for the given arguments,\n * e.g. when dividing an infinite duration by infinity or zero duration
by zero.\n */\n public
operator fun div(scale: Double): Duration {\n      val intScale = scale.roundToInt()\n      if (intScale.toDouble()
== scale && intScale != 0) {\n      return div(intScale)\n      }\n      val unit = storageUnit\n      val result =
toDouble(unit) / scale\n      return result.toDuration(unit)\n      }\n      /** Returns a number that is the ratio of this
and [other] duration values. */\n public operator fun div(other: Duration): Double {\n      val coarserUnit =
maxOf(this.storageUnit, other.storageUnit)\n      return this.toDouble(coarserUnit) / other.toDouble(coarserUnit)\n
      }\n      /**\n * Returns a duration whose value is this duration value truncated to the specified duration [unit].\n
*/\n internal fun truncateTo(unit: DurationUnit): Duration {\n      val storageUnit = storageUnit\n      if (unit <=
storageUnit || this.isInfinite()) return this\n      val scale = convertDurationUnit(1, unit, storageUnit)\n      val result
= value -
value % scale\n      return result.toDuration(storageUnit)\n      }\n      /** Returns true, if the duration value is less
than zero. */\n public fun isNegative(): Boolean = rawValue < 0\n      /** Returns true, if the duration value is
greater than zero. */\n public fun isPositive(): Boolean = rawValue > 0\n      /** Returns true, if the duration value
is infinite. */\n public fun isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue ==
NEG_INFINITE.rawValue\n      /** Returns true, if the duration value is finite. */\n public fun isFinite(): Boolean
= !isInfinite()\n      /** Returns the absolute value of this value. The returned value is always non-negative. */\n
public val absoluteValue: Duration get() = if (isNegative()) -this else this\n      override fun compareTo(other:
Duration): Int {\n      val compareBits = this.rawValue xor other.rawValue\n      if (compareBits < 0 ||
compareBits.toInt() and 1 == 0) // different signs or same sign/same range\n
      return this.rawValue.compareTo(other.rawValue)\n      // same sign/different ranges\n      val r =
this.unitDiscriminator - other.unitDiscriminator // compare ranges\n      return if (isNegative()) -r else r\n      }\n      }\n
// splitting to components\n      /**\n * Splits this duration into days, hours, minutes, seconds, and nanoseconds
and executes the given [action] with these components.\n * The result of [action] is returned as the result of this
function.\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;\n * - `seconds` represents the whole number of seconds in this duration, and its

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absolute value is less than 60;\n * - `minutes` represents the whole number of minutes in this duration, and its
absolute value is less than 60;\n * - `hours` represents the whole number of hours in this duration, and its absolute
value is less than 24;\n * - `days`
represents the whole number of days in this duration.\n *\n * Infinite durations are represented as either
[Long.MAX_VALUE] days, or [Long.MIN_VALUE] days (depending on the sign of infinity),\n * and zeroes in
the lower components.\n */\n public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int,
seconds: Int, nanoseconds: Int) -> T): T {\n     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE)
}\n     return action(inWholeDays, hoursComponent, minutesComponent, secondsComponent,
nanosecondsComponent)\n }\n\n /**\n * Splits this duration into hours, minutes, seconds, and nanoseconds
and executes the given [action] with these components.\n * The result of [action] is returned as the result of this
function.\n *\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;\n * - `seconds` represents the whole number of seconds in this
duration, and its absolute value is less than 60;\n * - `minutes` represents the whole number of minutes in this
duration, and its absolute value is less than 60;\n * - `hours` represents the whole number of hours in this
duration.\n *\n * Infinite durations are represented as either [Long.MAX_VALUE] hours, or
[Long.MIN_VALUE] hours (depending on the sign of infinity),\n * and zeroes in the lower components.\n */\n
public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T):
T {\n     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n     return action(inWholeHours,
minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n /**\n * Splits this duration into
minutes, seconds, and nanoseconds and executes the given [action] with these components.\n * The result of
[action] is returned as the result of this function.\n *\n * - `nanoseconds` represents the whole
number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds`
represents the whole number of seconds in this duration, and its absolute value is less than 60;\n * - `minutes`
represents the whole number of minutes in this duration.\n *\n * Infinite durations are represented as either
[Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n * and
zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (minutes: Long, seconds:
Int, nanoseconds: Int) -> T): T {\n     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n }\n\n /**\n * Splits this
duration into seconds, and nanoseconds and executes the given [action] with these components.\n * The result of
[action] is returned as the result of this function.\n *\n * - `nanoseconds` represents
the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n * -
`seconds` represents the whole number of seconds in this duration.\n *\n * Infinite durations are represented as
either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n *
and zero nanoseconds.\n */\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) ->
T): T {\n     contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n     return
action(inWholeSeconds, nanosecondsComponent)\n }\n\n @PublishedApi\n internal val hoursComponent:
Int\n     get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n\n @PublishedApi\n internal val
minutesComponent: Int\n     get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n\n @PublishedApi\n
internal val secondsComponent: Int\n     get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n\n
@PublishedApi\n internal val nanosecondsComponent: Int\n     get() = when {\n         isInfinite() -> 0\n
isInMillis() -> millisToNanos(value % 1_000).toInt()\n         else -> (value % 1_000_000_000).toInt()\n
}\n\n // conversion to units\n\n /**\n * Returns the value of this duration expressed as a [Double] number of
the specified [unit].\n *\n * The operation may involve rounding when the result cannot be represented exactly
with a [Double] number.\n *\n * An infinite duration value is converted either to
[Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n */\n public fun
toDouble(unit: DurationUnit): Double {\n     return when (rawValue) {\n         INFINITE.rawValue ->
Double.POSITIVE_INFINITY\n         NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n
else -> {\n         // TODO: whether it's ok to convert to Double before scaling\n

```

```

    convertDurationUnit(value.toDouble(), storageUnit, unit)\n        }\n        }\n        }\n        /**\n        * Returns the
value of this duration expressed as a [Long] number of the specified [unit].\n        *\n        * If the result doesn't fit in the
range of [Long] type, it is coerced into that range:\n        * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n        * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n        *\n        * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n        */\n        public fun toLong(unit: DurationUnit): Long {\n            return when (rawValue) {\n                INFINITE.rawValue -> Long.MAX_VALUE\n                NEG_INFINITE.rawValue -> Long.MIN_VALUE\n                else -> convertDurationUnit(value, storageUnit, unit)\n            }\n        }\n        /**\n        * Returns the value of this
duration expressed as an [Int] number of the specified [unit].\n        *\n        * If the result
doesn't fit in the range of [Int] type, it is coerced into that range:\n        * - [Int.MIN_VALUE] is returned if it's less
than `Int.MIN_VALUE`,\n        * - [Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n        *\n        * An infinite duration value is converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its
sign.\n        */\n        public fun toInt(unit: DurationUnit): Int =\n            toLong(unit).coerceIn(Int.MIN_VALUE.toLong(),
Int.MAX_VALUE.toLong()).toInt()\n        /**\n        * The value of this duration expressed as a [Double] number of days.\n        */\n        @ExperimentalTime\n        @Deprecated("Use inWholeDays property instead or convert toDouble(DAYS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.DAYS)"))\n        @DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8", hiddenSince = "1.9")\n        public val inDays:
Double get() = toDouble(DurationUnit.DAYS)\n        /**\n        * The value of this duration expressed as a [Double] number
of hours. */\n        @ExperimentalTime\n        @Deprecated("Use inWholeHours property instead or convert toDouble(HOURS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.HOURS)"))\n        @DeprecatedSinceKotlin(warningSince = "1.5", errorSince = "1.8", hiddenSince = "1.9")\n        public val
inHours: Double get() = toDouble(DurationUnit.HOURS)\n        /**\n        * The value of this duration expressed as a
[Double] number of minutes. */\n        @ExperimentalTime\n        @Deprecated("Use inWholeMinutes property instead
or convert toDouble(MINUTES) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.MINUTES)"))\n        @DeprecatedSinceKotlin(warningSince = "1.5",
errorSince = "1.8", hiddenSince = "1.9")\n        public val inMinutes: Double get() =
toDouble(DurationUnit.MINUTES)\n        /**\n        * The value of this duration expressed as a [Double] number of seconds.
*/\n        @ExperimentalTime\n        @Deprecated("Use inWholeSeconds property instead or convert
toDouble(SECONDS) if a double value
is required.", ReplaceWith("toDouble(DurationUnit.SECONDS)"))\n        @DeprecatedSinceKotlin(warningSince =
"1.5", errorSince = "1.8", hiddenSince = "1.9")\n        public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n        /**\n        * The value of this duration expressed as a [Double] number of
milliseconds. */\n        @ExperimentalTime\n        @Deprecated("Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.MILLISECONDS)"))\n        @DeprecatedSinceKotlin(warningSince = "1.5",
errorSince = "1.8", hiddenSince = "1.9")\n        public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n        /**\n        * The value of this duration expressed as a [Double] number of
microseconds. */\n        @ExperimentalTime\n        @Deprecated("Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.MICROSECONDS)"))\n        @DeprecatedSinceKotlin(warningSince = "1.5",
errorSince = "1.8", hiddenSince = "1.9")\n        public val inMicroseconds: Double get() = toDouble(DurationUnit.MICROSECONDS)\n        /**\n        * The value of this duration
expressed as a [Double] number of nanoseconds. */\n        @ExperimentalTime\n        @Deprecated("Use
inWholeNanoseconds property instead or convert toDouble(NANOSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.NANOSECONDS)"))\n        @DeprecatedSinceKotlin(warningSince =
"1.5", errorSince = "1.8", hiddenSince = "1.9")\n        public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n        /**\n        * The value of this duration expressed as a [Long]

```

```

number of days.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n /**\n * The value of this duration expressed
as a [Long] number of hours.\n * An infinite duration value is converted either to [Long.MAX_VALUE]
or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeHours: Long\n get() =
toLong(DurationUnit.HOURS)\n\n /**\n * The value of this duration expressed as a [Long] number of
minutes.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeMinutes: Long\n get() =
toLong(DurationUnit.MINUTES)\n\n /**\n * The value of this duration expressed as a [Long] number of
seconds.\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeSeconds: Long\n get() =
toLong(DurationUnit.SECONDS)\n\n /**\n * The value of this duration expressed as a [Long] number of
milliseconds.\n * An infinite duration value is converted
either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeMilliseconds: Long\n get() {\n return if (isInMillis() && isFinite()) value else
toLong(DurationUnit.MILLISECONDS)\n }\n\n /**\n * The value of this duration expressed as a [Long]
number of microseconds.\n * If the result doesn't fit in the range of [Long] type, it is coerced into that
range:\n * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * -
[Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n * An infinite duration value
is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeMicroseconds: Long\n get() = toLong(DurationUnit.MICROSECONDS)\n\n /**\n * The value of
this duration expressed as a [Long] number of nanoseconds.\n * If the result doesn't fit in the range of
[Long] type, it is coerced
into that range:\n * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * -
[Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n * An infinite duration value
is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeNanoseconds: Long\n get() {\n val value = value\n return when {\n isINanos()
-> value\n value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n value
< Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n else -> millisToNanos(value)\n
}\n }\n\n // shortcuts\n\n /**\n * Returns the value of this duration expressed as a [Long] number of
nanoseconds.\n * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the
conversion [Double.toLong] for details.\n * The range of durations that can
be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n */\n
@ExperimentalTime\n @Deprecated("Use inWholeNanoseconds property instead.")\n
ReplaceWith("this.inWholeNanoseconds")\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
"1.8", hiddenSince = "1.9")\n public fun toLongNanoseconds(): Long = inWholeNanoseconds\n\n /**\n *
Returns the value of this duration expressed as a [Long] number of milliseconds.\n * The value is coerced
to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n *
The range of durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292
million years.\n */\n @ExperimentalTime\n @Deprecated("Use inWholeMilliseconds property instead.")\n
ReplaceWith("this.inWholeMilliseconds")\n @DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
"1.8", hiddenSince = "1.9")\n
public fun toLongMilliseconds(): Long = inWholeMilliseconds\n\n /**\n * Returns a string representation of
this duration value\n * expressed as a combination of numeric components, each in its own unit.\n * Each
component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`:\n * `5h`, `1d 12h`, `1h 0m
30.340s`.\n * The last component, usually seconds, can be a number with a fractional part.\n * If the
duration is less than a second, it is represented as a single number\n * with one of sub-second units: `ms`
(milliseconds), `us` (microseconds), or `ns` (nanoseconds):\n * `140.884ms`, `500us`, `24ns`.\n * A

```



negative duration is prefixed with '-' sign and, if it consists of multiple components, surrounded with parentheses:  
`* -12m` and `-(1h 30m)`.`  
`* Special cases:`  
`* - an infinite duration is formatted as `"Infinity`" or `"-Infinity`" without a unit.  
* It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this toString` when you want to convert a duration to a string in cases of serialization, interchange, etc.  
* @sample  
samples.time.Durations.toStringDefault`  
override fun toString(): String = when (rawValue) {  
0L -> "0s`  
INFINITE.rawValue -> "Infinity`  
NEG_INFINITE.rawValue -> "-Infinity`  
else -> {  
val isNegative = isNegative()  
buildString {  
if (isNegative) append('-`  
absoluteValue.toComponents { days, hours, minutes, seconds, nanoseconds ->  
val hasDays = days != 0L  
val hasHours = hours != 0L  
val hasMinutes = minutes != 0L  
val hasSeconds = seconds != 0 || nanoseconds != 0L  
var components = 0L  
if (hasDays) {  
append(days).append('d`  
components++  
if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {  
if (components++ > 0) append(')`  
append(hours).append('h`  
if (hasMinutes || (hasSeconds && (hasHours || hasDays))) {  
if (components++ > 0) append(')`  
append(minutes).append('m`  
if (hasSeconds) {  
if (components++ > 0) append(')`  
when {  
seconds != 0 || hasDays || hasHours || hasMinutes ->  
appendFractional(seconds, nanoseconds, 9, 's`, isoZeroes = false)  
nanoseconds >= 1_000_000 ->  
appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, 'ms`, isoZeroes = false)  
nanoseconds >= 1_000 ->  
appendFractional(nanoseconds / 1_000, nanoseconds % 1_000, 3, 'us`, isoZeroes = false)  
append(nanoseconds).append('ns`)  
if (isNegative && components > 1) insert(1, '`.`append(')`  
private fun  
StringBuilder.appendFractional(whole: Int, fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {  
append(whole)  
if (fractional != 0) {  
append('.')  
val fracString = fractional.toString().padStart(fractionalSize, '0`  
val nonZeroDigits = fracString.indexOfLast { it != '0` } + 1  
when {  
!isoZeroes && nonZeroDigits < 3 -> appendRange(fracString, 0, nonZeroDigits)  
else -> appendRange(fracString, 0, ((nonZeroDigits + 2) / 3) * 3)  
append(unit)  
Return a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.  
* Special cases:  
* - an infinite duration is formatted as `"Infinity`" or `"-Infinity`" without a unit.  
* @param decimals the number of digits after decimal point to show. The value must be non-negative.  
* No more than 12 decimals will be shown, even if a larger number is requested.  
* @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.  
* @throws IllegalArgumentException if [decimals] is less than zero.  
* @sample  
samples.time.Durations.toStringDecimals`  
public fun toString(unit: DurationUnit, decimals: Int = 0):  
String {  
require(decimals >= 0) { "decimals must be not negative, but was $decimals` }  
val number = toDouble(unit)  
if (number.isInfinite()) return number.toString()  
return formatToExactDecimals(number, decimals.coerceAtMost(12)) + unit.shortName()  
Return an ISO-8601 based string representation of this duration.  
* The returned value is presented in the format `PTh>m>m>s>f`S`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents]) and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either 0, 3, 6, or 9 decimal digits.  
* The infinite duration is represented as `PT999999999999999H` which is larger than any possible finite duration in Kotlin.  
* Negative durations are indicated with the sign '-' in the beginning of the returned string, for example, `-PT5M30S`.  
* @sample samples.time.Durations.toIsoString``

```

    */n    public fun toIsoString(): String = buildString {n        if (isNegative()) append('-')n        append("PT")n
    this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->n
    @Suppress("NAME_SHADOWING")n        var hours = hoursn        if (isInfinite()) {n            // use large
    enough value instead of Long.MAX_VALUE\n            hours = 9_999_999_999_999\n        }n        val
    hasHours = hours != 0\n        val hasSeconds = seconds != 0 || nanoseconds != 0\n        val hasMinutes =
    minutes != 0 || (hasSeconds && hasHours)n        if (hasHours) {n            append(hours).append('H')n
    }n        if (hasMinutes) {n            append(minutes).append('M')n        }n        if (hasSeconds ||
    (!hasHours && !hasMinutes)) {n            appendFractional(seconds, nanoseconds, 9, "S", isoZeroes = true)n
        }n
    }n    }n}n}n// constructing from number of units\n// extension functions\n/** Returns a [Duration] equal to
    this [Int] number of the specified [unit].
    */n@SinceKotlin("1.6")n@WasExperimental(ExperimentalTime::class)npublic fun Int.toDuration(unit:
    DurationUnit): Duration {n    return if (unit <= DurationUnit.SECONDS) {n
    durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))n    } else{n
    toLong().toDuration(unit)n    }n}n/** Returns a [Duration] equal to this [Long] number of the specified [unit].
    */n@SinceKotlin("1.6")n@WasExperimental(ExperimentalTime::class)npublic fun Long.toDuration(unit:
    DurationUnit): Duration {n    val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS,
    DurationUnit.NANOSECONDS, unit)n    if (this in -maxNsInUnit..maxNsInUnit) {n        return
    durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))n    } else {n        val
    millis = convertDurationUnit(this, unit,
    DurationUnit.MILLISECONDS)n        return durationOfMillis(millis.coerceIn(-MAX_MILLIS,
    MAX_MILLIS))n    }n}n}n/** Returns a [Duration] equal to this [Double] number of the specified [unit].n
    *n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.n *n
    * @throws IllegalArgumentException if this `Double` value is `NaN`.n
    */n@SinceKotlin("1.6")n@WasExperimental(ExperimentalTime::class)npublic fun Double.toDuration(unit:
    DurationUnit): Duration {n    val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)n
    require(!valueInNs.isNaN()) { "Duration value cannot be NaN." }n    val nanos = valueInNs.roundToLong()n
    return if (nanos in -MAX_NANOS..MAX_NANOS) {n        durationOfNanos(nanos)n    } else {n        val millis =
    convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()n
    durationOfMillisNormalized(millis)n    }n}n}n// constructing from number of units\n//
    deprecated extension properties\n/** Returns a [Duration] equal to this [Int] number of nanoseconds.
    */n@SinceKotlin("1.3")n@ExperimentalTime\n@Deprecated("Use 'Int.nanoseconds' extension property from
    Duration.Companion instead.", ReplaceWith("this.nanoseconds",
    "kotlin.time.Duration.Companion.nanoseconds"))n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
    "1.8", hiddenSince = "1.9")npublic val Int.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)n}n/** Returns a [Duration] equal to this [Long] number of
    nanoseconds. */n@SinceKotlin("1.3")n@ExperimentalTime\n@Deprecated("Use 'Long.nanoseconds' extension
    property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
    "kotlin.time.Duration.Companion.nanoseconds"))n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
    "1.8", hiddenSince = "1.9")npublic val Long.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)n}n/** Returns a [Duration] equal to this [Double]
    number of nanoseconds.n *n * @throws IllegalArgumentException if this [Double] value is `NaN`.n
    */n@SinceKotlin("1.3")n@ExperimentalTime\n@Deprecated("Use 'Double.nanoseconds' extension property
    from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
    "kotlin.time.Duration.Companion.nanoseconds"))n@DeprecatedSinceKotlin(warningSince = "1.5", errorSince =
    "1.8", hiddenSince = "1.9")npublic val Double.nanoseconds get() =
    toDuration(DurationUnit.NANOSECONDS)n}n}n/** Returns a [Duration] equal to this [Int] number of
    microseconds. */n@SinceKotlin("1.3")n@ExperimentalTime\n@Deprecated("Use 'Int.microseconds' extension

```

```

property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\",
\"kotlin.time.Duration.Companion.microseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince
= \"1.8\", hiddenSince = \"1.9\")\n\npublic val Int.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of microseconds. *\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use
'Long.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\",
\"kotlin.time.Duration.Companion.microseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince
= \"1.8\", hiddenSince = \"1.9\")\n\npublic val Long.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/**\n\n * Returns a [Duration] equal to this [Double] number of
microseconds.\n\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n\n
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Double.microseconds' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\",
\"kotlin.time.Duration.Companion.microseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince
= \"1.8\", hiddenSince = \"1.9\")\n\npublic val Double.microseconds get() =
toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration]
equal to this [Int] number of milliseconds. *\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use
'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\",
\"kotlin.time.Duration.Companion.milliseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Int.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
milliseconds. *\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Long.milliseconds' extension
property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\",
\"kotlin.time.Duration.Companion.milliseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Long.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/**\n\n * Returns a [Duration] equal to this [Double] number of
milliseconds.\n\n * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n\n
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Double.milliseconds' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\",
\"kotlin.time.Duration.Companion.milliseconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Double.milliseconds get() =
toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of seconds.
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Int.seconds' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.seconds\",
\"kotlin.time.Duration.Companion.seconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns
a [Duration] equal to this [Long] number of seconds.
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use
'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\",
\"kotlin.time.Duration.Companion.seconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n\n * Returns a [Duration] equal to this [Double] number of seconds.\n\n * @throws
IllegalArgumentException if this [Double] value is `NaN`.\n\n
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Double.seconds'
extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\",
\"kotlin.time.Duration.Companion.seconds\")\n\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\n\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**
Returns a [Duration] equal to this [Int] number of minutes.
*\n\n@SinceKotlin(\"1.3\")\n\n@ExperimentalTime\n\n@Deprecated(\"Use 'Int.minutes'

```

```

extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a
[Duration] equal to this [Long] number of minutes.
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.minutes' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**
Returns a [Duration] equal to this [Double] number of minutes.\n *\n * @throws IllegalArgumentException if this
[Double] value is `NaN`.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.minutes'
extension property from Duration.Companion
instead.\", ReplaceWith(\"this.minutes\",
\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**
Returns a [Duration] equal to this [Int] number of hours.
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.hours' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration]
equal to this [Long] number of hours. *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use
'Long.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince =
\"1.8\", hiddenSince = \"1.9\")\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n *
Returns a [Duration] equal to this [Double] number of hours.\n *\n * @throws IllegalArgumentException if this
[Double] value is `NaN`.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.hours'
extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\",
\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a
[Duration] equal to this [Int] number of days.
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\n\n/**
Returns a [Duration] equal to this [Long] number of days.
*\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a
[Duration] equal to this [Double] number of days.\n *\n * @throws IllegalArgumentException if this [Double] value
is `NaN`.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.days' extension property
from Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\", errorSince = \"1.8\",
hiddenSince = \"1.9\")\npublic val Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration
whose value is the specified
[duration] value multiplied by this number.
*\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/**\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n *\n * The operation may involve rounding when

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the result cannot be represented exactly with a [Double] number.\n \* \n \* @throws IllegalArgumentException if the operation results in a `NaN` value.\n

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*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n    var length = value.length\n    if (length == 0) throw
IllegalArgumentException("The string is empty")\n    var index = 0\n    var result = Duration.ZERO\n    val
infinityString = "Infinity"\n
    when (value[index]) {\n        '+', '-' -> index++\n    }\n    val hasSign = index > 0\n    val isNegative = hasSign &&
value.startsWith('-')\n    when {\n        length <= index ->\n            throw IllegalArgumentException("No
components")\n        value[index] == 'P' -> {\n            if (++index == length) throw IllegalArgumentException()\n
            val nonDigitSymbols = "+-." \n            var isTimeComponent = false\n            var prevUnit: DurationUnit? =
null\n            while (index < length) {\n                if (value[index] == 'T') {\n                    if (isTimeComponent ||
++index == length) throw IllegalArgumentException()\n                    isTimeComponent = true\n
                }\n                continue\n            }\n            val component = value.substringWhile(index) { it in '0'..'9' || it in nonDigitSymbols
}\n            if (component.isEmpty()) throw IllegalArgumentException()\n            index += component.length\n
            val unitChar
            = value.getOrElse(index) { throw IllegalArgumentException("Missing unit for value $component") }\n
            index++\n            val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n            if (prevUnit != null
&& prevUnit <= unit) throw IllegalArgumentException("Unexpected order of duration components")\n
            prevUnit = unit\n            val dotIndex = component.indexOf('.')\n            if (unit == DurationUnit.SECONDS
&& dotIndex > 0) {\n                val whole = component.substring(0, dotIndex)\n                result +=
                parseOverLongIsoComponent(whole).toDuration(unit)\n                result +=
                component.substring(dotIndex).toDouble().toDuration(unit)\n            } else {\n                result +=
                parseOverLongIsoComponent(component).toDuration(unit)\n            }\n            }\n            strictIso ->\n
            throw IllegalArgumentException()\n            value.regionMatches(index, infinityString,
            0, length = maxOf(length - index, infinityString.length), ignoreCase = true) -> {\n                result =
                Duration.INFINITE\n            }\n            else -> {\n                // parse default string format\n                var prevUnit:
                DurationUnit? = null\n                var afterFirst = false\n                var allowSpaces = !hasSign\n                if (hasSign &&
                value[index] == '(' && value.last() == ')') {\n                    allowSpaces = true\n                    if (++index == --length) throw
                IllegalArgumentException("No components")\n                }\n                while (index < length) {\n                    if (afterFirst
                && allowSpaces) {\n                        index = value.skipWhile(index) { it == ' ' }\n                    }\n                    afterFirst =
                true\n                    val component = value.substringWhile(index) { it in '0'..'9' || it == '.' }\n                    if
                (component.isEmpty()) throw IllegalArgumentException()\n                    index += component.length\n                    val
                unitName = value.substringWhile(index)
                { it in 'a'..'z' }\n                    index += unitName.length\n                    val unit = durationUnitByShortName(unitName)\n
                    if (prevUnit != null && prevUnit <= unit) throw IllegalArgumentException("Unexpected order of duration
                components")\n                    prevUnit = unit\n                    val dotIndex = component.indexOf('.')\n                    if (dotIndex
                > 0) {\n                        val whole = component.substring(0, dotIndex)\n                        result +=
                        whole.toLong().toDuration(unit)\n                        result +=
                        component.substring(dotIndex).toDouble().toDuration(unit)\n                    }\n                    if (index < length) throw
                IllegalArgumentException("Fractional component must be last")\n                    } else {\n                        result +=
                        component.toLong().toDuration(unit)\n                    }\n                }\n                }\n                }\n                return if (isNegative) -result else
                result\n            }\n\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n
    val length = value.length\n    var startIndex = 0\n    if (length > 0 && value[0] in "+-") startIndex++\n    if
    ((length - startIndex) > 16 && (startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n        // all chars are digits,
    but more than ceiling(log10(MAX_MILLIS / 1000)) of them\n        return if (value[0] == '-') Long.MIN_VALUE
    else Long.MAX_VALUE\n    }\n    // TODO: replace with just toLong after min JDK becomes 8\n    return if
    (value.startsWith("+")) value.drop(1).toLong() else value.toLong()\n}\n\n\nprivate inline fun

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String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean): String =\n  substring(startIndex,
skipWhile(startIndex, predicate))\n\nprivate inline fun String.skipWhile(startIndex: Int, predicate: (Char) ->
Boolean): Int {\n  var i = startIndex\n  while (i < length && predicate(this[i])) i++\n  return i\n}\n\n\n\n\n\n//
The ranges are chosen so that they are:\n// - symmetric relative to zero: this greatly simplifies operations
with sign, e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent: the first value that doesn't fit in nanos
range, can be exactly represented in millis.\n\n\ninternal const val NANOS_IN_MILLIS = 1_000_000\n// maximum
number duration can store in nanosecond range\n\ninternal const val MAX_NANOS = Long.MAX_VALUE / 2 /
NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in ..._999_999\n// maximum number duration can store in
millisecond range, also encodes an infinite value\n\ninternal const val MAX_MILLIS = Long.MAX_VALUE / 2\n//
MAX_NANOS expressed in milliseconds\n\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS /
NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\n\nprivate
fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun
durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\n\nprivate fun durationOfMillis(normalMillis:
Long) = Duration((normalMillis shl 1) + 1)\n\nprivate fun durationOf(normalValue: Long,
unitDiscriminator: Int) = Duration((normalValue shl 1) + unitDiscriminator)\n\nprivate fun
durationOfNanosNormalized(nanos: Long) =\n  if (nanos in -MAX_NANOS..MAX_NANOS) {\n
durationOfNanos(nanos)\n  } else {\n    durationOfMillis(nanosToMillis(nanos))\n  }\n\nprivate fun
durationOfMillisNormalized(millis: Long) =\n  if (millis in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n    durationOfNanos(millisToNanos(millis))\n  }
else {\n    durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n  }\n\n\ninternal expect val
durationAssertionsEnabled: Boolean\n\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int):
String\n\n\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\n", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("\\UnsignedKt")\n\npackage
kotlin\n\n\n@PublishedApi\n\n\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n\n@PublishedApi\n\n\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n\n\n@PublishedApi\n\n\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n\n\n@PublishedApi\n\n\ninternal
fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n\n// Copyright 2011 The Guava
Authors\n\n\n\n@PublishedApi\n\n\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n  val dividend =
v1.toLong()\n  val divisor = v2.toLong()\n  if (divisor < 0) { // i.e., divisor >= 2^63:\n    return if (v1 < v2)
ULong(0) else ULong(1)\n  }\n  // Optimization - use signed division if both dividend and divisor < 2^63\n  if
(dividend >= 0) {\n    return ULong(dividend / divisor)\n  }\n  // Otherwise, approximate the quotient, check, and correct if necessary.\n  val quotient = ((dividend ushr
1) / divisor) shl 1\n  val rem = dividend - quotient * divisor\n  return ULong(quotient + if (ULong(rem) >=
ULong(divisor)) 1 else 0)\n}\n\n\n\n@PublishedApi\n\n\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong
{\n  val dividend = v1.toLong()\n  val divisor = v2.toLong()\n  if (divisor < 0) { // i.e., divisor >= 2^63:\n
return if (v1 < v2) {\n    v1 // dividend < divisor\n  } else {\n    v1 - v2 // dividend >= divisor\n  }\n}\n\n
// Optimization - use signed modulus if both dividend and divisor < 2^63\n  if (dividend >= 0) {\n
return ULong(dividend % divisor)\n  }\n  // Otherwise, approximate the quotient, check, and correct if
necessary.\n  val quotient = ((dividend ushr 1) / divisor) shl 1\n  val rem = dividend - quotient * divisor\n  return
ULong(rem - if (ULong(rem) >= ULong(divisor))
divisor else 0)\n}\n\n\n\n@PublishedApi\n\n\ninternal fun doubleToUInt(v: Double): UInt = when {\n  v.isNaN() -> 0u\n
v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n  v >= UInt.MAX_VALUE.toDouble() ->
UInt.MAX_VALUE\n  v <= Int.MAX_VALUE -> v.toInt().toUInt()\n  else -> (v -
Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v <

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UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n  v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n  v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n  v < Long.MAX_VALUE ->
v.toLong().toULong()\n\n  // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n  else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL    // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr
31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr
11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun ulongToString(v: Long): String = ulongToString(v,
10)\n\n\ninternal fun ulongToString(v: Long, base: Int): String {\n  if (v >= 0) return v.toString(base)\n\n  var
quotient = ((v ushr 1) / base) shl 1\n  var rem = v - quotient * base\n  if (rem >= base) {\n    rem -= base\n
quotient += 1\n  }\n  return quotient.toString(base) + rem.toString(base)\n}\n\n"/\n * Copyright 2010-2016
JetBrains s.r.o.\n * Licensed under the Apache License, Version 2.0 (the "License");\n * you may not use this
file except in compliance with the License.\n * You may obtain a copy of the License at\n * \n *
http://www.apache.org/licenses/LICENSE-2.0\n * Unless required by applicable law or agreed to in writing,
software\n * distributed under the License is distributed on an "AS IS" BASIS,\n * WITHOUT WARRANTIES
OR CONDITIONS
OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions
and\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding
type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to
use generic types as argument for such parameter.\n
*/\n\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on
platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the
module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method
'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*/\n\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal
annotation class PlatformDependent\n\n/**\n * When applied to a function or property, enables a compiler
optimization that evaluates that function or property\n * at compile-time and replaces calls to it with the computed
result.\n */\n\n@Target(AnnotationTarget.CONSTRUCTOR, AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.7")\ninternal
annotation class IntrinsicConstEvaluation\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n  override fun
iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another [Iterable] (or any other object that can
produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\ninternal class IndexingIterable<out T>(private val
iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n  override fun iterator():
Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of this iterable if
it is known, or `null` otherwise.\n */\n\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? =
if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of this iterable if it is known, or the specified
[default] value otherwise.\n */\n\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default:
Int): Int = if (this is Collection<*>) this.size else default\n\n\n/**\n

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* Returns a single list of all elements from all collections in the given collection.\n * @sample
samples.collections.Iterables.Operations.flattenIterable\n *^\npublic fun <T> Iterable<Iterable<T>>.flatten():
List<T> {\n    val result = ArrayList<T>()\n    for (element in this) {\n        result.addAll(element)\n    }\n    return
result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this
collection.\n * *second* list is built from the second values of each pair from this collection.\n * @sample
samples.collections.Iterables.Operations.unzipIterable\n *^\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val expectedSize = collectionSizeOrDefault(10)\n    val listT =
ArrayList<T>(expectedSize)\n    val listR = ArrayList<R>(expectedSize)\n    for (pair in this) {\n
listT.add(pair.first)\n    listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n"/\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\n\n/**\n * Given an [iterator] function constructs a [Sequence]
that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the
sequence is potentially infinite.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>):
Sequence<T> = object : Sequence<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a
sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromIterator\n
*/\n\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n *
Creates a sequence that returns the specified values.\n * \n * @sample
samples.collections.Sequences.Building.sequenceOfValues\n *^\npublic fun <T> sequenceOf(vararg elements: T):
Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\n\n/**\n * Returns an empty
sequence.\n * \n *^\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\n\nprivate object
EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n    override fun iterator():
Iterator<Nothing> = EmptyIterator\n    override fun drop(n: Int) = EmptySequence\n    override fun take(n: Int) =
EmptySequence\n}\n\n/**\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\n * \n *
@sample samples.collections.Sequences.Usage.sequenceOrEmpty\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?: emptySequence()\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n
*\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n *^\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n    val iterator =
this@ifEmpty.iterator()\n    if (iterator.hasNext()) {\n        yieldAll(iterator)\n    } else {\n
yieldAll(defaultValue())\n    }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *^\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n * \n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfLists\n
*/\n\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n    if (this is TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*,
T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence.\n * *second* list is built from the
second values of each pair from this sequence.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Sequences.Transformations.unzip\n *^\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():

```



```

Pair<List<T>, List<R>> {\n  val listT = ArrayList<T>()\n  val listR = ArrayList<R>()\n  for (pair in this) {\n    listT.add(pair.first)\n    listR.add(pair.second)\n  }\n  return listT to listR}\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled.\n * Note that every iteration of the sequence returns elements in a different order.\n * The operation is _intermediate_ and _stateful_.\n *\n * @SinceKotlin("1.4")\n */\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random] instance as the source of randomness.\n * Note that every iteration of the sequence returns elements in a different order.\n * The operation is _intermediate_ and _stateful_.\n *\n * @SinceKotlin("1.4")\n */\npublic fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n  val buffer = toMutableList()\n  while (buffer.isNotEmpty()) {\n    val j = random.nextInt(buffer.size)\n    val last = buffer.removeLast()\n    val value = if (j < buffer.size) buffer.set(j, last) else last\n    yield(value)\n  }\n}\n\n/**\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values for which the predicate returns `false` are returned.\n */\ninternal class FilteringSequence<T>(\n  private val sequence: Sequence<T>,\n  private val sendWhen: Boolean = true,\n  private val predicate: (T) -> Boolean\n) : Sequence<T> {\n  override fun iterator(): Iterator<T> = object : Iterator<T> {\n    val iterator = sequence.iterator()\n    var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n    var nextItem: T? = null\n    private fun calcNext() {\n      while (iterator.hasNext()) {\n        val item = iterator.next()\n        if (predicate(item) == sendWhen) {\n          nextItem = item\n          nextState = 1\n          return\n        }\n        nextState = 0\n      }\n      override fun next(): T {\n        if (nextState == -1)\n          calcNext()\n        if (nextState == 0)\n          throw NoSuchElementException()\n        val result = nextItem\n        nextItem = null\n        nextState = -1\n        @Suppress("UNCHECKED_CAST")\n        return result as T\n      }\n      override fun hasNext(): Boolean {\n        if (nextState == -1)\n          calcNext()\n        return nextState == 1\n      }\n    }\n  }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\ninternal class TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n  override fun iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator = sequence.iterator()\n    override fun next(): R {\n      return transformer(iterator.next())\n    }\n    override fun hasNext(): Boolean {\n      return iterator.hasNext()\n    }\n  }\n}\n\ninternal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n  return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n */\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n  override fun iterator(): Iterator<R> = object : Iterator<R> {\n    val iterator = sequence.iterator()\n    var index = 0\n    override fun next(): R {\n      return transformer(checkIndexOverflow(index++), iterator.next())\n    }\n    override fun hasNext(): Boolean {\n      return iterator.hasNext()\n    }\n  }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\n * [IndexedValue] objects.\n */\ninternal class IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n  override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n    val iterator = sequence.iterator()\n    var index = 0\n    override fun next(): IndexedValue<T> {\n      return IndexedValue(checkIndexOverflow(index++), iterator.next())\n    }\n    override fun hasNext(): Boolean {\n      return iterator.hasNext()\n    }\n  }\n}\n\n/**\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\n * [transform] function and returns the values returned by that function. The sequence stops returning\n * values as soon as one of the underlying sequences stops returning values.\n */\ninternal

```

```

class MergingSequence<T1, T2, V> {
  constructor(
    private val sequence1: Sequence<T1>,
    private val sequence2: Sequence<T2>,
    private val transform: (T1, T2) -> V
  ): Sequence<V> {
    override fun iterator():
    Iterator<V> = object : Iterator<V> {
      val iterator1 = sequence1.iterator()
      val iterator2 =
      sequence2.iterator()
      override fun next(): V {
        return transform(iterator1.next(), iterator2.next())
      }
      override fun hasNext(): Boolean {
        return iterator1.hasNext() && iterator2.hasNext()
      }
    }
  }
}

internal class FlatteningSequence<T, R, E> {
  constructor(
    private val sequence: Sequence<T>,
    private val transformer: (T) -> R,
    private val iterator: (R) ->
    Iterator<E>
  ): Sequence<E> {
    override fun iterator(): Iterator<E> = object : Iterator<E> {
      val iterator =
      sequence.iterator()
      var itemIterator: Iterator<E>? = null
      override fun next(): E {
        if
        (!ensureItemIterator())
          throw NoSuchElementException()
        return itemIterator!!.next()
      }
      override fun hasNext(): Boolean {
        return ensureItemIterator()
      }
      private fun
      ensureItemIterator(): Boolean {
        if (itemIterator?.hasNext() == false)
          itemIterator = null
        while (itemIterator == null) {
          if (!iterator.hasNext())
            return false
          else {
            val element = iterator.next()
            val nextItemIterator = iterator(transformer(element))
            if (nextItemIterator.hasNext())
              itemIterator = nextItemIterator
            return true
          }
        }
      }
    }
  }
}

internal fun
<T, C, R> flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>):
Sequence<R> =
sequence {
  var index = 0
  for (element in source) {
    val result =
    transform(checkIndexOverflow(index++), element)
    yieldAll(iterator(result))
  }
}

/**
 * A
 * sequence that supports drop(n) and take(n) operations
 */
internal interface DropTakeSequence<T> :
Sequence<T> {
  fun drop(n: Int): Sequence<T>
  fun take(n: Int): Sequence<T>
}

/**
 * A sequence that
 * skips [startIndex] values from the underlying [sequence]
 * and stops returning values right before [endIndex], i.e.
 * stops at `endIndex - 1`
 */
internal class SubSequence<T> {
  private val sequence: Sequence<T>
  private
  val startIndex: Int
  private val endIndex: Int
  ): Sequence<T>,

  DropTakeSequence<T> {
    init {
      require(startIndex >= 0) { "startIndex should be non-negative, but is
      $startIndex" }
      require(endIndex >= 0) { "endIndex should be non-negative, but is $endIndex" }
      require(endIndex >= startIndex) { "endIndex should be not less than startIndex, but was $endIndex < $startIndex" }
    }
    private val count: Int get() = endIndex - startIndex
    override fun drop(n: Int): Sequence<T> = if (n
    >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)
    override fun take(n: Int):
    Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)
    override fun
    iterator() = object : Iterator<T> {
      val iterator = sequence.iterator()
      var position = 0
      //
      Shouldn't be called from constructor to avoid premature iteration
      private fun drop() {
        while (position
        < startIndex && iterator.hasNext())
          iterator.next()
        position++
      }
      override fun hasNext(): Boolean {
        drop()
        return
        (position < endIndex) && iterator.hasNext()
      }
      override fun next(): T {
        drop()
        if
        (position >= endIndex)
          throw NoSuchElementException()
        position++
        return
        iterator.next()
      }
    }
  }
}

/**
 * A sequence that returns at most [count] values from the underlying
 * [sequence], and stops returning values
 * as soon as that count is reached.
 */
internal class TakeSequence<T> {
  private val sequence: Sequence<T>
  private val count: Int
  ): Sequence<T>, DropTakeSequence<T> {
    init {
      require(count >= 0) { "count must be non-negative, but was $count." }
    }
    override fun drop(n:
    Int): Sequence<T> = if (n
    >= count) emptySequence() else SubSequence(sequence, n, count)
    override fun
    take(n: Int): Sequence<T> = if (n
    >= count) this else TakeSequence(sequence, n)
    override fun iterator(): Iterator<T> = object : Iterator<T> {
      var left = count
      val iterator = sequence.iterator()
      override fun next(): T {
        if (left == 0)
          throw NoSuchElementException()
        left--
        return iterator.next()
      }
      override fun
      hasNext(): Boolean {
        return left > 0 && iterator.hasNext()
      }
    }
  }
}

/**
 * A sequence that
 * returns values from the underlying [sequence] while the [predicate] function returns `true`, and stops returning
 * values once the function returns `false` for the next element.
 */
internal class

```

```

TakeWhileSequence<T>\nconstructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->
Boolean)\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var nextState: Int = -1 // -1 for
unknown, 0 for done, 1 for continue\n var nextItem: T? = null\n private fun calcNext() {\n if
(iterator.hasNext()) {\n val item = iterator.next()\n if (predicate(item)) {\n nextState =
1\n nextItem = item\n return\n }\n }\n nextState = 0\n }\n\n override fun next(): T {\n if (nextState == -1)\n calcNext() // will change nextState\n if
(nextState == 0)\n throw NoSuchElementException()\n @SuppressWarnings("UNCHECKED_CAST")\n
val result = nextItem as T\n // Clean next to avoid keeping reference on yielded instance\n
nextItem = null\n nextState = -1\n return result\n }\n\n override fun hasNext(): Boolean {\n
if (nextState == -1)\n calcNext() // will change nextState\n
return nextState == 1\n }\n }\n}\n\n/**\n * A sequence that skips the specified number of values from the
underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n private val
sequence: Sequence<T>,\n private val count: Int)\n) : Sequence<T>, DropTakeSequence<T> {\n init {\n
require(count >= 0) { "\"count must be non-negative, but was $count.\" }\n }\n\n override fun drop(n: Int):
Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n\n
override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else
SubSequence(sequence, count, n1) }\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val
iterator = sequence.iterator()\n var left = count\n // Shouldn't be called from constructor to avoid
premature iteration\n private fun drop() {\n while (left > 0 && iterator.hasNext())
{\n iterator.next()\n left--\n }\n }\n\n override fun next(): T {\n drop()\n
return iterator.next()\n }\n\n override fun hasNext(): Boolean {\n drop()\n
return
iterator.hasNext()\n }\n }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while
the given [predicate] returns `true` and returns\n * all values after that.\n */\ninternal class
DropWhileSequence<T>(\n constructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->
Boolean)\n) : Sequence<T> {\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n
var nextItem: T? = null\n private fun drop() {\n while (iterator.hasNext()) {\n val item =
iterator.next()\n
if (!predicate(item)) {\n nextItem = item\n dropState = 1\n return\n
}\n }\n dropState = 0\n }\n\n override fun next(): T {\n if (dropState == -1)\n
drop()\n if (dropState == 1) {\n @SuppressWarnings("UNCHECKED_CAST")\n val result =
nextItem as T\n nextItem = null\n dropState = 0\n return result\n }\n return
iterator.next()\n }\n\n override fun hasNext(): Boolean {\n if (dropState == -1)\n
drop()\n
return dropState == 1 || iterator.hasNext()\n }\n }\n}\n\ninternal class DistinctSequence<T, K>(\n private val
source: Sequence<T>,\n private val keySelector: (T) -> K) : Sequence<T> {\n override fun iterator(): Iterator<T> =
DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate
class DistinctIterator<T, K>(\n private val source: Iterator<T>,\n private val keySelector: (T) -> K) :
AbstractIterator<T>() {\n private val observed = HashSet<K>()\n override fun computeNext() {\n while
(source.hasNext()) {\n val next = source.next()\n val key = keySelector(next)\n if
(observed.add(key)) {\n setNext(next)\n return\n }\n }\n done()\n
}\n}\n\nprivate class GeneratorSequence<T : Any>(\n private val getInitialValue: () -> T?,\n private val getNextValue:
(T) -> T?) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n var nextItem: T?
= null\n var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n
private fun calcNext() {\n nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\n
nextState = if (nextItem == null) 0 else 1\n
}\n\n override fun next(): T {\n if (nextState < 0)\n calcNext()\n if (nextState ==
0)\n throw NoSuchElementException()\n val result = nextItem as T\n // Do not clean

```

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nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n     nextState
= -1\n     return result\n     }\n\n     override fun hasNext(): Boolean {\n     if (nextState < 0)\n     calcNext()\n     return nextState == 1\n     }\n}\n\n/n/n/**\n * Returns a wrapper sequence that provides
values of this sequence, but ensures it can be iterated only one time.\n *\n * The operation is _intermediate_ and
_stateless_.
 *\n * [IllegalArgumentException] is thrown on iterating the returned sequence for the second time and the
following times.\n *\n */\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n // as? does not work
in js\n //return
    this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\n     return if (this is
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n/n/n/**\n * Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`.\n *\n * The
returned sequence is constrained to be iterated only once.\n *\n * @see constrainOnce\n *\n * @see
kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequence\n */\npublic
fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n     return
GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/n/n/**\n * Returns a sequence defined by
the starting value [seed] and the function [nextFunction],\n *\n * which is invoked to calculate the next value based on
the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n *\n * If
[seed] is `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n * @see
kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\n */\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,
nextFunction: (T) -> T?): Sequence<T> =\n     if (seed == null)\n     EmptySequence\n     else\n     GeneratorSequence({ seed }, nextFunction)\n}\n\n/n/n/**\n * Returns a sequence defined by the function [seedFunction],
which is invoked to produce the starting value,\n *\n * and the [nextFunction], which is invoked to calculate the next
value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first
`null` value.\n *\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The sequence can be
iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample
samples.collections.Sequences.Building.generateSequenceWithLazySeed
```

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*/\n\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n     GeneratorSequence(seedFunction, nextFunction)\n}\n\n/n/n\n\n\n/n/n\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\n\npackage
kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic
inline fun require(value: Boolean): Unit {\n     contract {\n     returns() implies value\n     }\n     require(value) {\n     "Failed requirement." }\n}\n\n/n/n/**\n * Throws an [IllegalArgumentException] with the result of calling
[lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n
contract {\n     returns() implies value\n     }\n     if (!value) {\n     val message = lazyMessage()\n     throw
IllegalArgumentException(message.toString())\n     }\n}\n\n/n/n/**\n * Throws an [IllegalArgumentException] if the
[value] is null. Otherwise returns the not null value.\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any>
requireNotNull(value: T?): T {\n     contract {\n     returns() implies (value != null)\n     }\n     return
requireNotNull(value) { "Required value was null." }\n}\n\n/n/n/**\n * Throws an [IllegalArgumentException] with
the result of calling [lazyMessage] if the [value] is null. Otherwise\n *\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T : Any> requireNotNull(value: T?,
lazyMessage: () -> Any): T {\n     contract {\n     returns() implies (value != null)\n     }\n     if (value == null) {\n
val message = lazyMessage()\n     throw IllegalArgumentException(message.toString())\n     } else {\n
```

```

return value\n } }\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun
check(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n check(value) { \"Check failed.\"
}\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n
*\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic
inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n
if (!value) {\n val message = lazyMessage()\n throw
IllegalStateException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is
null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return
checkNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the
result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample
samples.misc.Preconditions.failCheckWithLazyMessage\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T :
Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n
}\n\n if (value == null) {\n val message = lazyMessage()\n throw
IllegalStateException(message.toString())\n } else {\n
return value\n }\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n *
@sample samples.misc.Preconditions.failWithError\n *\n@kotlin.internal.InlineOnly\npublic inline fun
error(message: Any): Nothing = throw IllegalStateException(message.toString())\n\", \"/*\n * Copyright 2010-2023
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@kotlin.internal.InlineOnly\npackage kotlin.collections\n\n/\nNOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.js.*\nimport
primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n *
Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds
of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@kotlin.internal.InlineOnly\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n return
elementAtOrElse(index) { throw
IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic actual fun ByteArray.elementAt(index: Int): Byte
{\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\")
}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic
actual fun ShortArray.elementAt(index: Int): Short {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic actual fun IntArray.elementAt(index: Int): Int {\n
return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n *
Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds
of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic
actual fun LongArray.elementAt(index: Int): Long {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample
samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic actual fun FloatArray.elementAt(index: Int): Float
{\n return elementAtOrElse(index)
{\n throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the
given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n *
@sample samples.collections.Collections.Elements.elementAt\n *\n@kotlin.internal.InlineOnly\npublic actual fun

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@sample samples.collections.Collections.Elements.elementAt\n *^npublic actual fun
DoubleArray.elementAt(index: Int): Double {\n  return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n *^npublic actual fun BooleanArray.elementAt(index: Int):
Boolean {\n  return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size}") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n
* \n * @sample samples.collections.Collections.Elements.elementAt\n *^npublic actual fun
CharArray.elementAt(index: Int): Char {\n  return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, size: $size") }\n}\n\n/**\n * Returns a [List] that wraps the original
array.\n *^npublic actual fun <T> Array<out T>.asList(): List<T> {\n  return
ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n  return
this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n  return
this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n  return
this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n
* Returns a [List] that wraps the original array.\n *^n@kotlin.internal.InlineOnly\npublic actual inline fun
LongArray.asList(): List<Long> {\n  return this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a
[List] that wraps the original array.\n *^n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList():
List<Float> {\n  return this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the
original array.\n *^n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n
return this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n  return
this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*^npublic actual fun CharArray.asList(): List<Char> {\n
  return object : AbstractList<Char>(), RandomAccess {\n    override val size: Int get() = this@asList.size\n
    override fun isEmpty(): Boolean = this@asList.isEmpty()\n    override fun contains(element: Char): Boolean =
this@asList.contains(element)\n    override fun get(index: Int): Char {\n
AbstractList.checkElementIndex(index, size)\n      return this@asList[index]\n    }\n    override fun
indexOf(element: Char): Int {\n      @Suppress("USELESS_CAST")\n      if ((element as Any?) !is Char)
return -1\n      return this@asList.indexOf(element)\n    }\n    override fun lastIndexOf(element: Char): Int
{\n      @Suppress("USELESS_CAST")\n      if ((element as Any?) !is Char) return -1\n      return
this@asList.lastIndexOf(element)\n    }\n  }\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply*
equal to one another,\n * i.e. contain the same number of the same elements in
the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any
of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are
compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is
equal to itself and `-0.0` is not equal to `0.0`.\n
*^n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T>
Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n  return
this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are
also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are
also compared deeply.\n * If any of arrays contains itself on any nesting level

```

the behavior is undefined.  
The elements of other types are compared for equality with the [equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.  
@SinceKotlin("1.4")@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* Nested arrays are treated as lists too.\n \* If any of arrays contains itself on any nesting level the behavior is undefined.

@SinceKotlin("1.1")@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepHashCode(): Int {\n return this.contentDeepHashCode()\n}\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* Nested arrays are treated as lists too.\n \* If any of arrays contains itself on any

nesting level the behavior is undefined.  
@SinceKotlin("1.4")@library("arrayDeepHashCode")\npublic actual fun <T> Array<out T>?.contentDeepHashCode(): Int {\n definedExternally\n}\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* Nested arrays are treated as lists too.\n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `[...]` to prevent recursion.\n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString

@SinceKotlin("1.1")@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n return this.contentDeepToString()\n}\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a [List].\n \* Nested arrays are treated as lists too.\n \* If any of arrays contains itself on any nesting level that reference\n \* is rendered as `[...]` to prevent recursion.\n \* @sample samples.collections.Arrays.ContentOperations.contentDeepToString

@SinceKotlin("1.4")@library("arrayDeepToString")\npublic actual fun <T> Array<out T>?.contentDeepToString(): String {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* The elements are compared for equality with the [equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

@SinceKotlin("1.4")@library("arrayEquals")\npublic actual infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* The elements are compared for equality with the

[equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.  
@SinceKotlin("1.4")@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* The elements are compared for equality with the [equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

@SinceKotlin("1.4")@library("arrayEquals")\npublic actual infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* The

elements are compared for equality with the [equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

@SinceKotlin("1.4")@library("arrayEquals")\npublic actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* The elements are compared for equality with the [equals][Any.equals] function.  
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

@SinceKotlin("1.4")@library("arrayEquals")\npublic actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {\n definedExternally\n}\n/\*\*\n \* Returns `true` if the two specified arrays are

\*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n @SinceKotlin("1.4")\n @library("arrayEquals")\n public actual infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean {\n definedExternally\n }\n /\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n @SinceKotlin("1.4")\n @library("arrayEquals")\n public actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {\n definedExternally\n }\n /\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n @SinceKotlin("1.4")\n @library("arrayEquals")\n public actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\n definedExternally\n }\n /\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n @SinceKotlin("1.4")\n @library("arrayEquals")\n public actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun <T> Array<out T>?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun ByteArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun ShortArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun IntArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun LongArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun FloatArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun DoubleArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun BooleanArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n @SinceKotlin("1.4")\n @library("arrayHashCode")\n public actual fun CharArray?.contentHashCode(): Int {\n definedExternally\n }\n /\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n @library("arrayToString")\n public actual fun <T> Array<out T>?.contentToString(): String {\n definedExternally\n }\n /\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n @library("arrayToString")\n public actual fun ByteArray?.contentToString(): String {\n definedExternally\n }\n /\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n @SinceKotlin("1.4")\n @library("arrayToString")\n public actual fun ShortArray?.contentToString(): String {\n definedExternally\n }\n /\*\*\n \* Returns a string representation



of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun IntArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun LongArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
```

```
*\n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String {\n    definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n    arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * \n * 
```

@param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its\n * subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0,
endIndex: Int = size): FloatArray {\n    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the
same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n *
@param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n *
@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when
`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the
[destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination]
array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int
= 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n    arrayCopy(this.unsafeCast<Array<Double>>(),
destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify
the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination:
BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset,
startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n
* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the
specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return
the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): CharArray {\n    arrayCopy(this.unsafeCast<Array<Char>>(),
destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n

```

```

* Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\n@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n  return
this.asDynamic().slice()\n}\n\n/**\n
* Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun ByteArray.copyOfOf(): ByteArray {\n  return this.asDynamic().slice()\n}\n\n/**\n
* Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun ShortArray.copyOfOf(): ShortArray {\n  return this.asDynamic().slice()\n}\n\n/**\n
* Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun IntArray.copyOfOf(): IntArray {\n  return this.asDynamic().slice()\n}\n\n/**\n
* Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*^\npublic actual fun LongArray.copyOfOf(): LongArray
{\n  return withType("LongArray", this.asDynamic().slice())\n}\n\n/**\n
* Returns new array which is a copy of
the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*^\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOfOf(): FloatArray {\n  return
this.asDynamic().slice()\n}\n\n/**\n
* Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\n@Suppress("NOTHING_TO_INLINE")\npublic
actual inline fun DoubleArray.copyOfOf(): DoubleArray {\n  return this.asDynamic().slice()\n}\n\n/**\n
* Returns
new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n *^\npublic actual fun BooleanArray.copyOfOf():
BooleanArray {\n  return withType("BooleanArray", this.asDynamic().slice())\n}\n\n/**\n
* Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*^\npublic actual fun CharArray.copyOfOf(): CharArray {\n  return withType("CharArray",
this.asDynamic().slice())\n}\n\n/**\n
* Returns new array which is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]
is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater
than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *^\npublic actual fun
ByteArray.copyOfOf(newSize: Int): ByteArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." }
}\n  return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n
* Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *^\npublic actual fun
ShortArray.copyOfOf(newSize: Int): ShortArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." }
}\n  return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n
* Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *^\npublic actual fun
IntArray.copyOfOf(newSize: Int): IntArray {\n  require(newSize >= 0) { "Invalid new array size: $newSize." } }\n
return fillFrom(this, IntArray(newSize))\n}\n\n/**\n
* Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n

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* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual
fun LongArray.copyOf(newSize: Int): LongArray {\n    require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n    return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns
new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or
padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the
copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra
elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n    return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual
fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n    require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n    return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false`
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with `false` values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
BooleanArray.copyOf(newSize: Int): BooleanArray {\n
    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"BooleanArray\",
arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`)
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy
array are filled with null char (`\\u0000`) values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
CharArray.copyOf(newSize: Int): CharArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n    return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which
is a copy of the original array, resized to the given
[newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If
[newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize]
is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n
*\n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int):
Array<T?> {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return arrayCopyResize(this,
newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n
*\n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive)
to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out
T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex,

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toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic actual fun  
ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,  
toIndex)\n}\n\n/\*\*\n \* Returns  
a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws  
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic actual fun  
ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,  
toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \*  
@param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to  
copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the  
size of this array.\n \* @throws IllegalArgumentException  
if [fromIndex] is greater than [toIndex].\n \*/\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex:  
Int): IntArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return  
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range  
of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the  
end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero  
or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater  
than [toIndex].\n \*/\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("LongArray",  
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified  
range  
of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the  
end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero  
or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater  
than [toIndex].\n \*/\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,  
toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \*  
@param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to  
copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the  
size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n  
public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,  
toIndex)\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \*  
@param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to  
copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the  
size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n  
public actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n  
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("BooleanArray",  
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/\*\*\n \* Returns a new array which is a copy of the specified  
range of the original array.\n \* \n \* @param

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fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n
* \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun
CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType("<CharArray>",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException
if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than

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the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n *
@param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive)
to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  nativeFill(element, fromIndex, toIndex);\n}\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {\n  return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator
fun ByteArray.plus(element: Byte): ByteArray {\n  return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements
of the original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual
inline operator fun ShortArray.plus(element: Short): ShortArray {\n  return
plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then
the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
IntArray.plus(element: Int): IntArray {\n  return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array
containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {\n  return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun FloatArray.plus(element: Float): FloatArray {\n  return plus(floatArrayOf(element))\n}\n\n/**\n
* Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element:
Double): DoubleArray {\n  return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all

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elements of the original array and then the given [element].

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\n *^@Suppress("NOTHING_TO_INLINE")\npublic
actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {
\n    return
plus(booleanArrayOf(element))\n}\n\n/**
\n * Returns an array containing all elements of the original array and then
the given [element].
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(element: Char): CharArray {
\n    return plus(charArrayOf(element))\n}\n\n/**
\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.
\n
\n *^@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual
operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {
\n    return arrayPlusCollection(this,
elements)\n}\n\n/**
\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] collection.
\n
\n *^@public actual operator fun ByteArray.plus(elements: Collection<Byte>):
ByteArray {
\n    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**
\n *
Returns an array containing all elements of the original array and then all elements of the given [elements]
collection.
\n
\n *^@public actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
\n    return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**
\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.
\n
\n *^@public actual
operator fun IntArray.plus(elements: Collection<Int>): IntArray {
\n    return fillFromCollection(this.copyOf(size
+ elements.size), this.size, elements)\n}\n\n/**
\n * Returns an array containing all elements of the original array
and then all elements of the given [elements] collection.
\n
\n *^@public actual operator fun LongArray.plus(elements:
Collection<Long>): LongArray {
\n    return arrayPlusCollection(this, elements)\n}\n\n/**
\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.
\n
\n *^@public
actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {
\n    return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**
\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.
\n
\n *^@public actual
operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {
\n    return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**
\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.
\n
\n *^@public actual
operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {
\n    return
arrayPlusCollection(this, elements)\n}\n\n/**
\n * Returns an array containing all elements of the original array and
then all elements of the given [elements] collection.
\n
\n *^@public actual operator fun CharArray.plus(elements:
Collection<Char>): CharArray {
\n    return fillFromCollection(this.copyOf(size + elements.size), this.size,
elements)\n}\n\n/**
\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] array.
\n
\n *^@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>):
Array<T> {
\n    return this.asDynamic().concat(elements)\n}\n\n/**
\n * Returns an array containing all elements of
the original array and then all elements of the given [elements]
array.
\n
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements:
ByteArray): ByteArray {
\n    return primitiveArrayConcat(this, elements)\n}\n\n/**
\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.
\n
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements:
ShortArray): ShortArray {
\n    return primitiveArrayConcat(this, elements)\n}\n\n/**
\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.
\n
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun IntArray.plus(elements:
IntArray): IntArray {
\n    return primitiveArrayConcat(this, elements)\n}\n\n/**
\n * Returns an array containing all elements of
the original array and then all elements of the given [elements] array.
\n
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(elements:
LongArray): LongArray {
\n    return primitiveArrayConcat(this, elements)\n}\n\n/**
\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.
\n
\n *^@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun FloatArray.plus(elements:

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FloatArray): FloatArray { \n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements:
DoubleArray): DoubleArray { \n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] array.\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements:
BooleanArray): BooleanArray { \n  return primitiveArrayConcat(this,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] array.\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(elements: CharArray): CharArray { \n  return primitiveArrayConcat(this, elements)\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline fun <T>
Array<out T>.plusElement(element: T): Array<T> { \n  return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun
IntArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\npublic actual fun LongArray.sort(): Unit { \n
@Suppress("DEPRECATION")\n
if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun
ByteArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun
ShortArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun
DoubleArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun
FloatArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n * Sorts the array in-place.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArray\n
*\n\n@library("primitiveArraySort")\npublic actual fun CharArray.sort(): Unit { \n  definedExternally\n}\n\n/**\n
* Sorts the array in-place according to the natural order of its elements.\n
*\n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n
*\n * @sample
samples.collections.Arrays.Sorting.sortArrayOfComparable\n
*\n\npublic actual fun <T : Comparable<T>>
Array<out T>.sort(): Unit { \n  if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the
order specified by the given [comparison] function.\n
*\n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n
*\n\n@Deprecated("Use sortWith instead",
ReplaceWith("this.sortWith(Comparator(comparison))"))\n\n@DeprecatedSinceKotlin(warningSince =
"1.6")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit { \n  if (size > 1)
sortArrayWith(this, comparison)\n}\n\n/**\n
* Sorts a range in the array in-place.\n
*\n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n
*\n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n
*\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
*\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit { \n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n
sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n

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 * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the
range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]
is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n    val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n
subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

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*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by
default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n    subarray.sort()\n}\n\n/**\n * Sorts the
array in-place according to the order specified by the given [comparison] function.\n * \n * @Deprecated("Use other
sorting functions from
the Standard Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public
inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n * @Deprecated("Use other sorting functions from the Standard
Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n
*\n * @Deprecated("Use other sorting functions from the Standard
Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public inline fun
IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts
the array in-place according to the order specified by the given [comparison] function.\n * \n * @Deprecated("Use
other sorting functions from the Standard Library")\n * @DeprecatedSinceKotlin(warningSince =
"1.6")\n * @kotlin.internal.InlineOnly\n * public inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) ->
Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the
given [comparison] function.\n * \n * @Deprecated("Use other sorting functions from the Standard
Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n
*\n * @Deprecated("Use other sorting functions from the Standard
Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public
inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given
[comparison] function.\n * \n * @Deprecated("Use other sorting functions from the Standard
Library")\n * @DeprecatedSinceKotlin(warningSince = "1.6")\n * @kotlin.internal.InlineOnly\n * public inline fun
CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n
nativeSort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n * \n * @public actual fun <T>
Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n
if (size > 1) sortArrayWith(this,
comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is
_stable_. It means that equal elements
preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive)
to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this

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array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size):
Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArrayWith(this, fromIndex, toIndex,
comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n
*\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n    return js("[]").slice.call(this)\n}\n\n/**\n *
Returns
a *typed* object array containing all of the elements of this primitive array.\n *\npublic actual fun
ShortArray.toTypedArray(): Array<Short> {\n    return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed*
object array containing all of the elements of this primitive array.\n *\npublic actual fun IntArray.toTypedArray():
Array<Int> {\n    return js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the
elements of this primitive array.\n *\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n    return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n    return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n    return
js("[]").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive
array.\n *\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n    return js("[]").slice.call(this)\n}\n\n/**\n * Returns a
*typed* object array containing all of the elements of this primitive array.\n *\npublic actual fun
CharArray.toTypedArray(): Array<Char> {\n    return Array(size) { index -> this[index] }\n}\n\n"/\n * Copyright
2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result
of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return
[Comparable]\n * objects.
As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\n * compare as equal, the
result of that comparison is returned.\n *\n * @sample
samples.comparisons.Comparisons.compareValuesByWithSelectors\n *\npublic fun <T> compareValuesBy(a: T,
b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n    require(selectors.size > 0)\n    return
compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors:
Array<out (T) -> Comparable<*>?>): Int {\n    for (fn in selectors) {\n        val v1 = fn(a)\n        val v2 = fn(b)\n
val diff = compareValues(v1, v2)\n        if (diff != 0) return diff\n    }\n    return 0\n}\n\n/**\n * Compares two
values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to
the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable]
instances is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) ->
Comparable<*>?): Int {\n    return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values
using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the
given values [a] and [b] and return objects of type K which are then being\n * compared with the given
[comparator].\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in
K>, selector: (T) -> K): Int {\n    return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without
type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })\n\n/**\n * Compares two values using the specified
[comparator].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic inline fun <T> compareValuesWith(a: T,
b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n\n/**\n * Compares two nullable

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[Comparable] values. Null is considered less than any value.\n *\n * @sample
samples.comparisons.Comparisons.compareValues\n */\npublic fun <T : Comparable<*>> compareValues(a: T?, b:
T?): Int {\n    if (a === b) return 0\n    if (a == null) return -1\n    if (b == null) return 1\n\n    @Suppress("UNCHECKED_CAST")\n    return (a as Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a
comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called
sequentially, receive the given values `a` and `b` and return [Comparable]\n * objects. As soon as the [Comparable]
instances returned by a function for `a` and `b` values do not\n * compare as equal, the result of that comparison is
returned from the [Comparator].\n *\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\n
*/\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n
require(selectors.size > 0)\n    return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n *
Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n *
@sample samples.comparisons.Comparisons.compareByWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?):
Comparator<T> =\n    Comparator { a, b -> compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator
using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to
compare transformed values.\n *\n * @sample samples.comparisons.Comparisons.compareByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline
selector: (T) ->
K): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a
descending comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n *
@sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n    Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n *
Creates a descending comparator using the [selector] function to transform values being compared and then
applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is
reversed by this wrapper.\n *\n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T>
=\n    Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\n\n/**\n * Creates a comparator
comparing values after the primary comparator defined them equal. It uses\n * the function to transform value to a
[Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenBy\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare =
this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b,
selector)\n    }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal.
It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n *
@sample samples.comparisons.Comparisons.thenByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator:
Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val
previousCompare = this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, comparator, selector)\n    }\n\n/**\n * Creates a descending comparator using the primary
comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenByDescending\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]

```

```

function to transform values and then compares
them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a,
b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n\n**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n
*\n * @sample samples.comparisons.Comparisons.thenComparator\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n
Comparator { a, b ->\n    val previousCompare = this@thenComparator.compare(a, b)\n    if (previousCompare
!= 0) previousCompare else comparison(a, b)\n    }\n\n\n**\n * Combines this
comparator and the given [comparator] such that the latter is applied only\n * when the former considered values
equal.\n *\n * @sample samples.comparisons.Comparisons.then\n *\n@kotlin.internal.InlineOnly\npublic infix fun <T>
Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val
previousCompare = this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else
comparator.compare(a, b)\n    }\n\n\n**\n * Combines this comparator and the given [comparator] such that the latter
is applied only\n * when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.thenDescending\n *\n@kotlin.internal.InlineOnly\npublic infix fun <T>
Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b -
->\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0)
previousCompare else comparator.compare(b, a)\n    }\n\n\n// Not so useful without type inference for receiver of
expression\n\n**\n\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null`
value less than any other value.\n * Non-null values are compared with the provided [comparator].\n *\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n\n**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n * Non-null values are compared according to their [natural order][naturalOrder].\n *\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n**\n\n * Extends the
given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater
than any other value.\n * Non-null values are compared with the provided [comparator].\n *\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n\n**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n * Non-null values are compared according to their [natural order][naturalOrder].\n *\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\n\n**\n\n * Returns a comparator
that
compares [Comparable] objects in natural order.\n *\n * The natural order of a `Comparable` type here means the
order established by its `compareTo` function.\n *\n *\n * @sample
samples.comparisons.Comparisons.naturalOrderComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Comparable<T>> naturalOrder():
Comparator<T> = @Suppress("\nUNCHECKED_CAST") (NaturalOrderComparator as Comparator<T>)\n\n**\n\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n *\n * The natural order of a
`Comparable` type here means the order established by its `compareTo` function.\n *\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Comparable<T>>

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reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as
Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering of this comparator.\n *\n *
@sample samples.comparisons.Comparisons.reversed\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n\npublic fun
<T> Comparator<T>.reversed(): Comparator<T> = when (this) {\n is ReversedComparator -> this.comparator\n
NaturalOrderComparator -> @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as
Comparator<T>)\n ReverseOrderComparator -> @Suppress("UNCHECKED_CAST")
(NaturalOrderComparator as Comparator<T>)\n else -> ReversedComparator(this)\n}\n\n\nprivate class
ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n override fun compare(a:
T, b: T): Int = comparator.compare(b, a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed():
Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>,
b: Comparable<Any>): Int = b.compareTo(a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun
reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\n}\n\n"/**\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\n\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*\n\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n
*\n * @param reason a string explaining why the implementation is missing.\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun TODO(reason: String): Nothing = throw
NotImplementedError("An operation is not implemented: $reason")\n\n\n/**\n * Calls the specified function
[block] and returns its result.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <R> run(block: () -> R): R {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified
function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n contract
{\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the
specified function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage
information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-
functions.html#with).\n *\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T, R> with(receiver: T, block: T.() ->
R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return
receiver.block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns `this`
value.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n
*\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n
block()\n return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and
returns `this` value.\n *\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n

```



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*^@kotlin.internal.InlineOnly^@SinceKotlin("1.1")^public inline fun <T> T.also(block: (T) -> Unit): T {^n
contract {^n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)^n }^n block(this)^n return
this^}^n/^n/**^n * Calls the specified function [block] with `this` value as its argument and returns its result.^n *^n *
For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).^n *^@kotlin.internal.InlineOnly^public
inline fun <T, R> T.let(block: (T) -> R): R {^n    contract {^n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)^n    }^n    return block(this)^}^n/^n/**^n * Returns `this` value
if it satisfies the given [predicate] or `null`, if it doesn't.^n *^n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-
takeunless).^n *^@kotlin.internal.InlineOnly^@SinceKotlin("1.1")^public inline fun <T> T.takeIf(predicate:
(T) -> Boolean): T? {^n    contract {^n        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)^n    }^n
return if (predicate(this)) this else null^}^n/^n/**^n * Returns `this` value if it _does not_ satisfy the given [predicate]
or `null`, if it does.^n *^n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).^n
*^@kotlin.internal.InlineOnly^@SinceKotlin("1.1")^public inline fun <T> T.takeUnless(predicate: (T) ->
Boolean): T? {^n    contract {^n        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)^n    }^n    return if
(!predicate(this))
this else null^}^n/^n/**^n * Executes the given function [action] specified number of [times].^n *^n * A zero-based
index of current iteration is passed as a parameter to [action].^n *^n * @sample samples.misc.ControlFlow.repeat^
*^@kotlin.internal.InlineOnly^public inline fun repeat(times: Int, action: (Int) -> Unit) {^n    contract {
callsInPlace(action) }^n    for (index in 0 until times) {^n        action(index)^n    }^}^n/^n/**^n * Copyright 2010-
2023 JetBrains s.r.o. and Kotlin Programming Language contributors.^n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.^n *^n^package kotlin.comparisons^/^n/^
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt^/^ See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib/^/^nimport kotlin.js.^n/^n/**^n * Returns the greater
of two values.^n *^n * If values are equal, returns the first one.^n *^@kotlin.internal.InlineOnly^public actual
fun <T : Comparable<T>> maxOf(a: T, b: T): T {^n    return if (a >= b) a else b^}^n/^n/**^n * Returns the greater of
two values.^n *^@kotlin.internal.InlineOnly^public actual inline fun maxOf(a: Byte, b:
Byte): Byte {^n    return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()^}^n/^n/**^n * Returns the greater of two
values.^n *^@kotlin.internal.InlineOnly^public actual inline fun maxOf(a: Short, b:
Short): Short {^n    return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()^}^n/^n/**^n * Returns the greater of two
values.^n *^@kotlin.internal.InlineOnly^public actual inline fun maxOf(a: Int, b: Int): Int
{^n    return JsMath.max(a, b)^}^n/^n/**^n * Returns the greater of two values.^n
*^@kotlin.internal.InlineOnly^@Suppress("NOTHING_TO_INLINE")^public actual inline fun maxOf(a: Long, b:
Long): Long {^n    return if (a >= b) a else b^}^n/^n/**^n * Returns the greater of two values.^n *^n * If either value
is `NaN`,
returns `NaN`.^n *^@kotlin.internal.InlineOnly^public actual inline fun maxOf(a: Float,
b: Float): Float {^n    return JsMath.max(a, b)^}^n/^n/**^n * Returns the greater of two values.^n *^n * If either value
is `NaN`, returns `NaN`.^n *^@kotlin.internal.InlineOnly^public actual inline fun
maxOf(a: Double, b: Double): Double {^n    return JsMath.max(a, b)^}^n/^n/**^n * Returns the greater of three
values.^n *^n * If there are multiple equal maximal values, returns the first of them.^n
*^@kotlin.internal.InlineOnly^public actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {^n    return
maxOf(a, maxOf(b, c))^}^n/^n/**^n * Returns the greater of three values.^n
*^@kotlin.internal.InlineOnly^public actual inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte {^n    return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()^}^n/^n/**^n * Returns the greater of
three values.^n *^@kotlin.internal.InlineOnly^public
actual inline fun maxOf(a: Short, b: Short, c: Short): Short {^n    return JsMath.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()^}^n/^n/**^n * Returns the greater of three values.^n

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*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n
    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long):\nLong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is\n`NaN`, returns `NaN`.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a:\nFloat, b: Float, c: Float): Float {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic\nactual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of\nthem.\n */
*^@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given\nvalues.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n    var max = a\n    for\n(e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given values.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a: Int, vararg other: Int):\nInt {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of\nthe given values.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n    var\nmax = a\n    for (e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the greater of the given\nvalues.\n * \n * If any value is `NaN`, returns `NaN`.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a:\nFloat, vararg other: Float): Float {\n    var max = a\n    for (e in other) max = maxOf(max, e)\n    return\nmax\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */
*^@SinceKotlin("1.4")\npublic actual fun maxOf(a: Double, vararg other: Double): Double {\n    var max = a\n    for\n(e in other) max = maxOf(max, e)\n    return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If\nvalues are equal, returns the first one.\n */
*^@SinceKotlin("1.1")\npublic actual fun <T\n: Comparable<T>> minOf(a: T, b: T): T {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two\nvalues.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte):\nByte {\n    return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short): Short\n{\n    return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int): Int {\n    return\nJsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */
*^@SinceKotlin("1.1")@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun minOf(a: Long, b:\nLong): Long {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value\nis `NaN`,\nreturns `NaN`.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float,\nb: Float): Float {\n    return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value\nis `NaN`, returns `NaN`.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun\nminOf(a: Double, b: Double): Double {\n    return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of three\nvalues.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */
*^@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n    return minOf(a,\nminOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte):\nByte {\n    return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of\nthree values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic\nactual inline fun minOf(a: Short, b: Short, c: Short): Short {\n    return JsMath.min(a.toInt(), b.toInt(),\nc.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int, c: Int): Int {\n

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return JsMath.min(a, b, c)\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long):
Long {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is
`NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a:
Float, b: Float, c: Float): Float {\n    return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n *
\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n    return JsMath.min(a, b, c)\n}\n\n/**\n *
Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of
them.\n *\n@SinceKotlin("1.4")\npublic actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {\n
var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given
values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n    var min = a\n
for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n    var min = a\n    for (e
in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Int, vararg other: Int): Int
{\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the
given values.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Long, vararg other: Long): Long {\n    var
min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n * Returns the smaller of the given
values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Float,
vararg other: Float): Float {\n    var min = a\n    for (e in other) min = minOf(min, e)\n    return min\n}\n\n/**\n
* Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n    var min = a\n
for (e in other) min = minOf(min, e)\n    return min\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npubl
ic value class ULong @kotlin.internal.IntrinsicConstEvaluation @PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n    companion object {\n        /**\n
        * A constant holding the minimum value an instance of ULong can have.\n
        *\n        public const val
MIN_VALUE: ULong = ULong(0)\n\n        /**\n        * A constant holding the maximum value an instance of
ULong can have.\n
        *\n        public const val MAX_VALUE: ULong = ULong(-1)\n\n        /**\n        * The
number of bytes used to represent an instance of ULong in a binary form.\n
        *\n        public const val
SIZE_BYTES: Int = 8\n\n        /**\n        * The number of bits used to represent
an instance of ULong in a binary form.\n
        *\n        public const val SIZE_BITS: Int = 64\n    }\n\n    /**\n    *
Compares this value with the specified value for order.\n    * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n    * or a positive number if it's greater than other.\n
    *\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the specified value for order.\n
    * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n
    * or a positive number if it's greater than other.\n
    *\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the
specified value for order.\n    * Returns zero if this value is equal
to the specified other value, a negative number if it's less than other,\n
    * or a positive number if it's greater than other.\n
    *\n    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UInt): Int =
this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the specified value for order.\n
    * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n
    * or a positive number if it's greater than other.\n
    *\n    @kotlin.internal.InlineOnly\n

```

```

@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: ULong): Int =
ulongCompare(this.data, other.data)\n\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UShort): ULong = this.plus(other.toULong())\n /** Adds the other value to this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n
/** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
ULong): ULong = ULong(this.data.plus(other.data))\n\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n /** Subtracts the other
value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /** Multiplies
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n /** Multiplies this value by
the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
UByte): ULong = this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an
integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort):
ULong = this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n /**\n * Calculates the remainder of truncating division of this value (dividend) by
the other value (divisor).\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UByte): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this
value (dividend) by the other value (divisor).\n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n
/**\n * Calculates the remainder of truncating division of this value (dividend) by the other value (divisor).\n
*\n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator
fun rem(other: UInt): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating
division of this value (dividend) by the other value (divisor).\n * The result is always less than the divisor.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong =
ulongRemainder(this, other)\n\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value
by the other value, flooring the result to an integer that is closer to negative infinity.\n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n

```

```

public inline fun floorDiv(other:
    UInt): ULong = this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the
result to an integer that is closer to negative infinity.\n *\n * For unsigned types, the results of flooring division
and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
    ULong): ULong = div(other)\n\n /**\n * Calculates the remainder of flooring division of this value (dividend)
by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For unsigned types,
the remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UByte): UByte = this.mod(other.toULong()).toUByte()\n /**\n * Calculates the
remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is always
less than the divisor.\n *\n
    * For unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
    @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toULong()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value
(dividend) by the other value (divisor).\n *\n * The result is always less than the divisor.\n *\n * For
unsigned types, the remainders of flooring division and truncating division are the same.\n */\n
    @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt = this.mod(other.toULong()).toInt()\n
/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n
    * The result is always less than the divisor.\n *\n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other:
    ULong): ULong = rem(other)\n\n /**\n * Returns this value incremented by one.\n *\n * @sample
samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): ULong =
    ULong(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong =
    ULong(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value. */\n
    @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange =
    ULongRange(this, other)\n\n /**\n * Creates a range from this value up to but excluding the specified [other]
value.\n *\n * If the [other] value is less than or equal to `this` value, then the returned range is empty.\n */\n
    @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n
    public inline operator fun rangeUntil(other: ULong): ULongRange = this.until(other)\n\n /**\n * Shifts this
value left by the [bitCount] number of bits.\n *\n * Note that only the six lowest-order bits of the [bitCount] are
used as the shift distance.\n * The shift distance actually used is therefore always in the range `0..63`. */\n
    @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n
/**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n *\n *
Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance
actually used is therefore always in the range `0..63`. */\n @kotlin.internal.InlineOnly\n public inline infix
fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\n\n /**\n * Performs a bitwise AND operation between
the two values. */\n @kotlin.internal.InlineOnly\n
    public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\n\n /**\n * Performs a bitwise
OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other:
    ULong): ULong = ULong(this.data or other.data)\n\n /**\n * Performs a bitwise XOR operation between the two
values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: ULong): ULong = ULong(this.data
xor other.data)\n\n /**\n * Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv():
    ULong = ULong(data.inv())\n\n /**\n * Converts this [ULong] value to [Byte].\n *\n * If this value is less
than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this
`ULong`.\n *\n * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong`
value.\n * Note that the resulting `Byte` value may be negative.\n
    */\n @kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this
[ULong] value to [Short].\n *\n * If this value is less than or equals to [Short.MAX_VALUE], the resulting

```

`Short` value represents the same numerical value as this `ULong`. The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value. Note that the resulting `Short` value may be negative.

```
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort()
/**
 * Converts this [ULong] value to [Int].
 * If this value is less than or equals to [Int.MAX_VALUE], the
 * resulting `Int` value represents the same numerical value as this `ULong`.
 * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.
 * Note that the resulting `Int` value may be negative.
```

```
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt()
/**
 * Converts this [ULong] value to [Long].
 * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value
 * represents the same numerical value as this `ULong`. Otherwise the result is negative.
 * The resulting `Long` value has the same binary representation as this `ULong` value.
```

```
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data
/**
 * Converts this [ULong] value to [UByte].
 * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value
 * represents the same numerical value as this `ULong`. The resulting `UByte` value is represented
 * by the least significant 8 bits of this `ULong` value.
```

```
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()
/**
 * Converts this [ULong] value to [UShort].
 * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value
 * represents the same numerical value as this `ULong`. The resulting `UShort` value is represented
 * by the least significant 16 bits of this `ULong` value.
```

```
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()
/**
 * Converts this [ULong] value to [UInt].
 * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents
 * the same numerical value as this `ULong`. The resulting `UInt` value is represented by the least significant 32 bits of this
 * `ULong` value.
```

```
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = data.toUInt()
/**
 * Returns this value.
```

```
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = this
/**
 * Converts this [ULong] value to [Float].
 * The resulting value is the closest `Float` to this `ULong` value. In case when this `ULong` value is
 * exactly between two `Float`s, the one with zero at least significant bit of mantissa is selected.
```

```
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()
/**
 * Converts this [ULong] value to [Double].
 * The resulting value is the closest `Double` to this `ULong` value. In case when this `ULong` value is exactly between two `Double`s,
 * the one with zero at least significant bit of mantissa is selected.
```

```
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double =
    ulongToDouble(data)
public override fun toString(): String = ulongToString(data)
/**
 * Converts this [Byte] value to [ULong].
 * If this value is positive, the resulting `ULong` value represents the same
 * numerical value as this `Byte`. The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,
 * whereas the most significant 56 bits are filled with the sign bit of this value.
```

```
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Short] value to [ULong].
 * If this value is positive, the resulting `ULong` value represents the same numerical value as this
 * `Short`. The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short`
 * value, whereas the most significant 48 bits are filled with the sign bit of this value.
```

```
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Short.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Int] value to [ULong].
 * If this value is positive, the resulting `ULong` value represents
 * the same numerical value as this `Int`. The least significant 32 bits of the resulting `ULong` value are the
 * same as the bits of this `Int` value, whereas the most significant 32 bits are filled with the sign bit of this value.
```

```
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Int.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this [Long] value to [ULong].
```

```

*\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`. \n *\n
* The resulting `ULong` value has the same binary representation as this `Long` value.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun Long.toULong(): ULong = ULong(this)\n\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n\n/**\n * Converts this [Double] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`. \n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n", "/*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage kotlin.collections\n\n/\n\n
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the list.\n *\n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n    return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n
*\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if (this is Collection)\n        return contains(element)\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n
*\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n    return elementAtOrElse(index) {\n        throw IndexOutOfBoundsException("Collection doesn't contain element at index $index.")\n    }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n *\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*\npublic fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (this is List)\n        return this.getOrElse(index, defaultValue)\n    if (index < 0)\n        return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n *\n

```

```

* @sample samples.collections.Collections.Elements.elementAtOrElse\n *^\n@kotlin.internal.InlineOnly\npublic
inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n  if (this is List)\n    return this.elementAtOrNull(index)\n  if (index <
0)\n    return
null\n  val iterator = iterator()\n  var count = 0\n  while (iterator.hasNext()) {\n    val element =
iterator.next()\n    if (index == count++)\n      return element\n  }\n  return null\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrNull(index: Int): T? {\n  return this.elementAtOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n  return
lastOrNull(predicate)\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the
collection is empty.\n *^\npublic fun <T> Iterable<T>.first(): T {\n  when (this) {\n    is List -> return
this.first()\n    else -> {\n      val iterator = iterator()\n      if (!iterator.hasNext())\n        throw
NoSuchElementException("Collection is empty.")\n      return iterator.next()\n    }\n  }\n}\n\n/**\n *
Returns the first element.\n * \n * @throws NoSuchElementException
if the list is empty.\n *^\npublic fun <T> List<T>.first(): T {\n  if (isEmpty())\n    throw
NoSuchElementException("List is empty.")\n  return this[0]\n}\n\n/**\n * Returns the first element matching the
given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *^\npublic inline fun <T>
Iterable<T>.first(predicate: (T) -> Boolean): T {\n  for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this collection in iteration
order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n *^\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {\n  return firstNotNullOfOrNull(transform)
?: throw NoSuchElementException("No element of the collection was transformed to a non-null
value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements
of this collection in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n *^\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n  for (element in this) {\n    val result =
transform(element)\n    if (result != null) {\n      return result\n    }\n  }\n  return null\n}\n\n/**\n *
Returns the first element, or `null` if the collection is empty.\n *^\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n
when (this) {\n  is List -> {\n    if (isEmpty())\n      return null\n    else\n      return this[0]\n  }\n  else -> {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n      return null\n    return iterator.next()\n  }\n}\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n *^\npublic

```



```

fun <T> List<T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T>
Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -
1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T>
Iterable<T>.indexOf(element: T): Int {\n    if (this is List) return this.indexOf(element)\n    var index = 0\n    for
(item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n
*\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n    return
indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) ->
Boolean): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if
(predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        if
(predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun
<T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var
lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if
(predicate(item))\n            lastIndex = index\n            index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns index of
the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun
<T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    val iterator = this.listIterator(size)\n    while
(iterator.hasPrevious()) {\n        if (predicate(iterator.previous()))\n            return iterator.nextIndex()\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n */\n * \n * @throws NoSuchElementException if the collection
is empty.\n */\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T
{\n    when (this) {\n        is List -> return this.last()\n        else -> {\n            val iterator = iterator()\n            if
(!iterator.hasNext())\n                throw NoSuchElementException("Collection is empty.")\n            var last = iterator.next()\n            while
(iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last
element.\n */\n * \n * @throws NoSuchElementException if the list is empty.\n */\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n    if (isEmpty())\n        throw NoSuchElementException("List is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element
matching the given [predicate].\n */\n * \n * @throws NoSuchElementException if no such element is found.\n */\n * \n *
@sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -
> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))\n            last = element\n            found = true\n    }\n    if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return last as T\n}\n\n/**\n * Returns the last element matching the
given [predicate].\n */\n * \n * @throws NoSuchElementException if no such element is found.\n */\n * \n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T
{\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n

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    if (predicate(element)) return element\n    } \n    throw NoSuchElementException("List contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain
element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n    if
(this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n
    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            lastIndex = index\n
index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain
element.\n */\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes
precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int
{\n    return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n */\n\n
@sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n
when (this) {\n    is List -> return if (isEmpty()) null else this[size - 1]\n    else -> {\n        val iterator =
iterator()\n        if (!iterator.hasNext())\n            return null\n        var last = iterator.next()\n        while
(iterator.hasNext())\n            last = iterator.next()\n
        return last\n    }\n}\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n */\n\n
@sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n */\n\n @sample samples.collections.Collections.Elements.last\n */\npublic inline
fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n
        if (predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\n\n @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) ->
Boolean): T? {\n    val iterator = this.listIterator(size)\n
    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return
element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this collection.\n */\n\n @throws
NoSuchElementException if this collection is empty.\n\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of
randomness.\n */\n\n @throws NoSuchElementException if this collection is empty.\n\n
*/\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw
NoSuchElementException("Collection is empty.")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this collection, or `null` if this collection is empty.\n */\n\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Collection<T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n */\n\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
Collection<T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return
elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is
empty or has more than one element.\n */\n\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -
> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n
throw NoSuchElementException("Collection is empty.")\n            val single = iterator.next()\n            if
(iterator.hasNext())\n                throw IllegalArgumentException("Collection has
more than one element.")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws
an exception if the list is empty or has more than one element.\n */\n\n */\npublic fun <T> List<T>.single(): T {\n
return when (size) {\n    0 -> throw NoSuchElementException("List is empty.")\n    1 -> this[0]\n    else -> throw
IllegalArgumentException("List has more than one element.")\n}\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n\n */\npublic
inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n

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for (element in this) {
    if (predicate(element)) {
        if (found) throw
        IllegalArgumentException("Collection contains more than one matching element.")
        single = element
        found = true
    }
    if (!found) throw NoSuchElementException("Collection
contains no element matching the predicate.")
    @SuppressWarnings("UNCHECKED_CAST")
    return single as
    T
}

/**
 * Returns single element, or `null` if the collection is empty or has more than one element.
 */
public fun <T> Iterable<T>.singleOrNull(): T? {
    when (this) {
        is List -> return if (size == 1) this[0]
        else null
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            val single = iterator.next()
            if (iterator.hasNext())
                return null
            return single
        }
    }
}

/**
 * Returns single element, or `null` if the list is empty or has more than one element.
 */
public fun <T> List<T>.singleOrNull(): T? {
    return if (size == 1) this[0] else null
}

/**
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
public inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {
    var single: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) return null
            single = element
            found = true
        }
        if (!found) return null
    }
    return single
}

/**
 * Returns a list containing all elements except first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> Iterable<T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return toList()
    val list: ArrayList<T>
    if (this is Collection<*>) {
        val resultSize = size - n
        if (resultSize <= 0)
            return emptyList()
        if (resultSize == 1)
            return listOf(last())
        list = ArrayList<T>(resultSize)
        if (this is List<T>)
            if (this is RandomAccess)
                for (index in n until size)
                    list.add(this[index])
            else
                for (item in listIterator(n))
                    list.add(item)
        else
            list = ArrayList<T>()
            var count = 0
            for (item in this)
                if (count >= n)
                    list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

/**
 * Returns a list containing all elements except last [n] elements.
 * @throws IllegalArgumentException if [n] is negative.
 * @sample samples.collections.Collections.Transformations.drop
 */
public fun <T> List<T>.dropLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last elements that satisfy the given [predicate].
 * @sample samples.collections.Collections.Transformations.drop
 */
public inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {
    if (!isEmpty()) {
        val iterator = listIterator(size)
        while (iterator.hasPrevious())
            if (!predicate(iterator.previous()))
                return take(iterator.nextIndex() + 1)
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except first elements that satisfy the given [predicate].
 * @sample samples.collections.Collections.Transformations.drop
 */
public inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {
    var yielding = false
    val list = ArrayList<T>()
    for (item in this)
        if (yielding)
            list.add(item)
        else if (!predicate(item))
            list.add(item)
            yielding = true
    }
    return list
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
public inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {
    return filterTo(ArrayList<T>(), predicate)
}

/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexed
 */
public inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {
    return filterIndexedTo(ArrayList<T>(), predicate)
}

/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample

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samples.collections.Collections.Filtering.filterIndexedTo
 *^public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate:
(index: Int, T) -> Boolean): C { \n  forEachIndexed { index, element -> \n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/** \n * Returns a list containing all elements that are
instances of specified type parameter R.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance
 *^public inline fun <reified R>
Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> { \n  return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/** \n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo
 *^public inline fun <reified R, C :
MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C { \n  for (element in this) if (element is
R) destination.add(element)\n
  return destination\n}\n\n/** \n * Returns a list containing all elements not matching the given [predicate].\n * \n *
@sample samples.collections.Collections.Filtering.filter
 *^public inline fun <T> Iterable<T>.filterNot(predicate:
(T) -> Boolean): List<T> { \n  return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/** \n * Returns a list containing
all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull
 *^public
fun <T : Any> Iterable<T?>.filterNotNull(): List<T> { \n  return filterNotNullTo(ArrayList<T>())\n}\n\n/** \n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo
 *^public fun <C : MutableCollection<in T>, T : Any>
Iterable<T?>.filterNotNullTo(destination: C): C { \n  for (element in this) if (element != null)
destination.add(element)\n  return destination\n}\n\n/** \n * Appends all elements not matching
the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo
 *^public inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C { \n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n/** \n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo
 *^public inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) ->
Boolean): C { \n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n/** \n * Returns a list containing elements at indices in the specified [indices] range.\n *^public
fun <T> List<T>.slice(indices: IntRange): List<T> { \n  if (indices.isEmpty()) return listOf()\n  return
this.subList(indices.start, indices.endInclusive
+ 1).toList()\n}\n\n/** \n * Returns a list containing elements at specified [indices].\n *^public fun <T>
List<T>.slice(indices: Iterable<Int>): List<T> { \n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0)
return emptyList()\n  val list = ArrayList<T>(size)\n  for (index in indices) { \n    list.add(get(index))\n  }\n
return list\n}\n\n/** \n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take
 *^public fun <T>
Iterable<T>.take(n: Int): List<T> { \n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n
== 0) return emptyList()\n  if (this is Collection<T>) { \n    if (n >= size) return toList()\n    if (n == 1) return
listOf(first())\n  }\n  var count = 0\n  val list = ArrayList<T>(n)\n  for (item in this) { \n    list.add(item)\n
if (++count == n)\n    break\n  }\n  return list.optimizeReadOnlyList()\n}\n\n/** \n * Returns a list containing last [n] elements.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take
 *^public fun <T> List<T>.takeLast(n: Int): List<T> { \n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size =
size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(last())\n  val list = ArrayList<T>(n)\n  if (this is
RandomAccess) { \n    for (index in size - n until size)\n      list.add(this[index])\n  } else { \n    for (item in
listIterator(size - n))\n      list.add(item)\n  }\n  return list\n}\n\n/** \n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take
 *^public

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inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean):
List<T> {\n if (isEmpty())\n return emptyList()\n val iterator = listIterator(size)\n while
(iterator.hasPrevious()) {\n if (!predicate(iterator.previous())) {\n iterator.next()\n val
expectedSize = size - iterator.nextIndex()\n if (expectedSize == 0) return emptyList()\n return
ArrayList<T>(expectedSize).apply {\n while (iterator.hasNext())\n add(iterator.next())\n
}\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n\npublic inline fun <T>
Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n
if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the
list in-place.\n */\n\npublic expect fun
<T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\n\npublic fun <T>
Iterable<T>.reversed(): List<T> {\n if (this is Collection && size <= 1) return toList()\n val list =
toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Randomly shuffles elements in this list in-place using
the specified [random] instance as the source of randomness.\n * \n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n
*/\n\n@SinceKotlin("1.3")\n\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n this[j] = this.set(i, this[j])\n }\n}\n\n/**\n * Sorts elements
in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n\npublic
inline fun <T,
R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1)
sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort
order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\n\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1)
sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to
their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\n\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n
sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *
\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
*/\n\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n if (this is Collection) {\n if (size <= 1)
return this.toList()\n @SuppressWarnings("UNCHECKED_CAST")\n return (toTypedArray<Comparable<T>>())
as Array<T>).apply { sort() }.asList()\n }\n return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of
all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n *
*/\n\n@sample samples.collections.Collections.Sorting.sortedBy\n */\n\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural
sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\n\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\n\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>
{\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\n\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n

```

```

    if (this is Collection) {\n      if (size <= 1) return this.toList()\n      @Suppress("UNCHECKED_CAST")\n      return (toTypedArray<Any?>()) as Array<T>}.apply { sortWith(comparator) }.asList()\n    }\n    return\n    toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the\n * elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n    val result\n    = BooleanArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return\n    result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun\n    Collection<Byte>.toByteArray(): ByteArray {\n    val result = ByteArray(size)\n    var index = 0\n    for (element in\n    this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Char containing all of the\n * elements of this collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray\n    {\n    val result = CharArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic\n    fun Collection<Double>.toDoubleArray(): DoubleArray {\n    val result = DoubleArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Float\n * containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n    val result = FloatArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return\n    result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun\n    Collection<Int>.toIntArray(): IntArray {\n    val result = IntArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun\n    Collection<Long>.toLongArray(): LongArray {\n    val result = LongArray(size)\n    var index = 0\n    for (element\n    in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Short containing all of\n * the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n    val result =\n    ShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return\n    result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to\n * elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the\n * map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample\n * samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T,\n    K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    val capacity =\n    mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K,\n    V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed\n * by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would\n * have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves\n * the entry iteration order of the original collection.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K>\n    Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =\n    mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,\n    T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and\n * indexed by [keySelector]\n * functions applied to elements of the given collection.\n * \n * If any two elements would have the same key\n * returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration\n * order of the original collection.\n * \n * @sample\n * samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V>\n    Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity =\n    mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K,\n    V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with\n * key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given\n * collection\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by\n * [keySelector] the last one gets added to the map.\n * \n */

```

```

\n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element
in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given
collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,
V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n *
\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in
K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n
destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given collection and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]
function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the
map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*/\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n
return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C :
MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return
toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is Collection) {\n return when (size)
{\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else iterator().next())\n else ->
this.toMutableList()\n }\n }\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a
new [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList():
MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n
*/\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n return ArrayList(this)\n}\n\n/**\n *
Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original
collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is Collection) {\n return when (size)
{\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else iterator().next())\n else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample

```

```

samples.collections.Collections.Transformations.flatMap\n
*/\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each element of original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapSequence")\npublic inline fun <T, R>
Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n    return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded
from results of [transform] function being invoked on each element\n * and its index in the original collection, to
the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original collection, to the given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npu
blic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index:
Int, T) -> Sequence<R>): C {\n    var index = 0\n    for (element in this) {\n        val list =
transform(checkIndexOverflow(index++), element)\n        destination.addAll(list)\n    }\n    return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in
R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val
list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original collection, to the
given [destination].\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapSequenceTo")\npublic
inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) ->
Sequence<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
}\n    return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given
[keySelector] function\n * applied to each element and returns a map where each group key is associated with a list

```



of corresponding elements. The returned map preserves the entry iteration order of the keys produced from the original collection.

```

@sample samples.collections.Collections.Transformations.groupBy
public inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(),
        keySelector)
}

Groups values returned by the [valueTransform] function applied to each element of the original collection by the key returned by the given [keySelector] function applied to the element and returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original collection.
@sample samples.collections.Collections.Transformations.groupByKeysAndValues
public inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

Groups elements of the original collection by the key returned by the given [keySelector] function applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.
@return The [destination] map.
@sample samples.collections.Collections.Transformations.groupBy
public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

Groups values returned by the [valueTransform] function applied to each element of the original collection by the key returned by the given [keySelector] function applied to the element and puts to the [destination] map each group key associated with a list of corresponding values.
@return The [destination] map.
@sample samples.collections.Collections.Transformations.groupByKeysAndValues
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each element.
@sample samples.collections.Grouping.groupingByEachCount
@SinceKotlin("1.1")
public inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T, K> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
    }
}

Returns a list containing the results of applying the given [transform] function to each element in the original collection.
@sample samples.collections.Collections.Transformations.map
public inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {
    return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)
}

Returns a list containing the results of applying the given [transform] function to each element and its index in the original collection.
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.
public inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)
}

Returns a list containing only the non-null results of applying the given [transform] function to each element and its index in the original collection.
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.
public inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

Applies the given [transform] function to each element and its index in the original collection and appends only the non-null results to the given [destination].
@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.
public inline fun <T, R : Any, C : MutableCollection<in R>>

```

```

Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

```

Applies the given [transform] function to each element and its index in the original collection and appends the results to the given [destination].

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(checkIndexOverflow(index++), item))
    return destination
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each element in the original collection.

@sample

```

samples.collections.Collections.Transformations.mapNotNull

```

```

public inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each element in the original collection and appends only the non-null results to the given [destination].

```

public inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
    forEach { element -> transform(element)?.let { destination.add(it) } }
    return destination
}

```

Applies the given [transform] function to each element of the original collection and appends the results to the given [destination].

```

public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

```

Returns a lazy [Iterable] that wraps each element of the original collection into an [IndexedValue] containing the index of that element and the element itself.

```

public fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

```

Returns a list containing only distinct elements from the given collection.

Among equal elements of the given collection, only the first one will be present in the resulting list.

The elements in the resulting list are in the same order as they were in the source collection.

@sample

```

samples.collections.Collections.Transformations.distinctAndDistinctBy

```

```

public fun <T> Iterable<T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}

```

Returns a list containing only elements from the given collection having distinct keys returned by the given [selector] function.

Among elements of the given collection with equal keys, only the first one will be present in the resulting list.

The elements in the resulting list are in the same order as they were in the source collection.

@sample

```

samples.collections.Collections.Transformations.distinctAndDistinctBy

```

```

public inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = HashSet<K>()
    val list = ArrayList<T>()
    for (e in this) {
        val key = selector(e)
        if (set.add(key))
            list.add(e)
    }
    return list
}

```

Returns a set containing all elements that are contained by both this collection and the specified collection.

The returned set preserves the element iteration order of the original collection.

To get a set containing all elements that are contained at least in one of these collections use [union].

```

public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.retainAll(other)
    return set
}

```

Returns a set containing all elements that are contained by this collection and not contained by the specified collection.

The returned set preserves the element iteration order of the original collection.

```

public infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

Returns a new [MutableSet] containing all distinct elements from the given collection.

The returned set preserves the element iteration order of the original collection.

```

public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<T> -> LinkedHashSet<T>()
        else -> toCollection(LinkedHashSet<T>())
    }
}

```

Returns a set containing all distinct elements from both collections.

The returned set preserves the element iteration order of the original collection.

Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

To get a set containing all elements that are contained in both collections use

```
[intersect].\n *\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n    val set =
this.toMutableSet()\n    set.addAll(other)\n    return set\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n *\n * Note that if the collection contains no elements, the function returns `true`\n * because
there are no elements in it that _do not_ match the predicate.\n * See a more detailed explanation of this logic
concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n *\n * @sample
samples.collections.Collections.Aggregates.all\n *\npublic inline fun <T> Iterable<T>.all(predicate: (T) ->
Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for (element in this) if
(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n
*\n * @sample samples.collections.Collections.Aggregates.any\n *\npublic fun <T> Iterable<T>.any(): Boolean
{\n    if (this is Collection) return !isEmpty()\n    return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least
one element matches the given [predicate].\n *\n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *\npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n    if (this
is Collection && isEmpty()) return false\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns the number of elements in this collection.\n *\npublic fun <T> Iterable<T>.count(): Int
{\n    if (this is Collection) return size\n    var count = 0\n    for (element in this) checkCountOverflow(++count)\n
return count\n}\n\n/**\n * Returns the number of elements in this collection.\n
*\n *@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n    return size\n}\n\n/**\n *
Returns the number of elements matching the given [predicate].\n *\npublic inline fun <T>
Iterable<T>.count(predicate: (T) -> Boolean): Int {\n    if (this is Collection && isEmpty()) return 0\n    var count =
0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value
and each element.\n *\n * Returns the specified [initial] value if the collection is empty.\n *\n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n *\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var
accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n *\n * Returns the
specified [initial] value if the collection is empty.\n *\n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) ->
R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element and current
accumulator value.\n *\n * Returns the specified [initial] value if the list is empty.\n *\n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n    var accumulator =
initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n
accumulator = operation(iterator.previous(), accumulator)\n        }\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n *
to each element with its index in the original list and current accumulator value.\n *\n * Returns the specified
[initial] value if the list is empty.\n *\n * @param [operation] function that takes the index of an element, the
element itself\n * and current accumulator value, and calculates the next accumulator value.\n *\npublic inline fun
<T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n    var accumulator =
initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n
val
index = iterator.previousIndex()\n        accumulator = operation(index, iterator.previous(), accumulator)\n        }\n
}\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n
\n
```

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*^@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on
each element, providing sequential index with the element.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n */\npublic inline fun <T>
Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this)
action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is
`NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun Iterable<Double>.max(): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN`
returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun Iterable<Float>.max(): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n * Returns the largest element.\n * \n * If any of elements is `NaN`
returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var max = iterator.next()\n while (iterator.hasNext())
{\n val e = iterator.next()\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function.\n * \n * @throws
NoSuchElementException if the collection is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERL
OADS")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T {\n val iterator =
iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var maxElem = iterator.next()\n if
(!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while
(iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) ->
R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if
(!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n
val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while
(iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by
[selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is
empty.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double): Double {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result

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is `NaN`. \n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n
    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n
    maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw
NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v
= selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n
val v = selector(iterator.next())\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
collection or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxValue =
selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (maxValue <
v) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to
the provided [comparator]\n * among all values produced by [selector] function applied to each element in the
collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n
maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n *
among all values produced by [selector] function applied to each element in the collection or `null` if there are no
elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  val iterator =
iterator()\n  if (!iterator.hasNext()) return null\n  var max = selector(iterator.next())\n  while
(iterator.hasNext()) {\n    val v = selector(iterator.next())\n    if (comparator.compare(max, v) < 0) {\n
max = v\n    }\n  }\n  return max\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.maxOrNull():
Double? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var max = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    max = maxOf(max, e)\n  }\n  return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.maxOrNull(): Float? {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) return null\n  var max = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    max = maxOf(max, e)\n  }\n  return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Iterable<T>.maxOrNull(): T?
{\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var max = iterator.next()\n  while
(iterator.hasNext()) {\n
    val e = iterator.next()\n    if (max < e) max = e\n  }\n  return max\n}\n\n/**\n * Returns the first element
having the largest value according to the provided [comparator].\n * \n * @throws NoSuchElementException if the
collection is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T {\n  val iterator =
iterator()\n  if (!iterator.hasNext()) throw NoSuchElementException()\n  var max = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    if (comparator.compare(max, e) < 0) max = e\n  }\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]
or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n  val iterator = iterator()\n  if
(!iterator.hasNext())
return null\n  var max = iterator.next()\n  while (iterator.hasNext()) {\n    val e = iterator.next()\n    if
(comparator.compare(max, e) < 0) max = e\n  }\n  return max\n}\n\n/**\n * Returns the smallest element.\n * \n *
If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun Iterable<Double>.min(): Double {\n  val iterator = iterator()\n  if (!iterator.hasNext()) throw
NoSuchElementException()\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest element.\n * \n *
If any of elements is `NaN` returns `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic
fun Iterable<Float>.min(): Float {\n  val iterator = iterator()\n  if (!iterator.hasNext()) throw
NoSuchElementException()\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest element.\n * \n *
@throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOA
DS")\npublic fun <T : Comparable<T>> Iterable<T>.min(): T {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) throw NoSuchElementException()\n  var min = iterator.next()\n  while (iterator.hasNext())
{\n    val e = iterator.next()\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element
yielding the smallest value of the given function.\n * \n * @throws NoSuchElementException if the collection is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n

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*^@SinceKotlin("1.7")@kotlin.jvm.JvmName("minByOrThrow")@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n */\n * @sample\nsamples.collections.Collections.Aggregates.minByOrNull\n*^@SinceKotlin("1.4")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n */\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n * @throws NoSuchElementException if the collection is empty.\n}\n\n*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Double): Double {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n */\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n * @throws NoSuchElementException if the collection is empty.\n}\n\n*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n */\n * @throws NoSuchElementException if the collection is empty.\n}\n\n*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minOf(selector: (T) -> R): R {\n    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n */\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n}\n\n*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v = selector(iterator.next())\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n */\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n}\n\n*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector:

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(T) -> Float): Float? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var minValue =
selector(iterator.next())\n  while (iterator.hasNext()) {\n    val v = selector(iterator.next())\n    minValue =
minOf(minValue, v)\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return
null\n  var minValue = selector(iterator.next())\n  while (iterator.hasNext()) {\n    val v =
selector(iterator.next())\n    if (minValue > v) {\n      minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among
all values produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:
Comparator<in R>, selector: (T) -> R): R {\n  val iterator = iterator()\n  if (!iterator.hasNext()) throw
NoSuchElementException()\n  var minValue = selector(iterator.next())\n  while (iterator.hasNext()) {\n    val v
= selector(iterator.next())\n    if (comparator.compare(minValue, v) > 0) {\n      minValue = v\n    }\n  }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied
to each element in the collection or `null` if there are no elements.\n
*\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n  val iterator =
iterator()\n  if (!iterator.hasNext()) return null\n  var minValue = selector(iterator.next())\n  while
(iterator.hasNext()) {\n    val v = selector(iterator.next())\n    if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.minOrNull(): Double? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var
min = iterator.next()\n  while (iterator.hasNext())\n  {\n    val e = iterator.next()\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest
element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.minOrNull(): Float? {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) return null\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    min = minOf(min, e)\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n *\n\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Iterable<T>.minOrNull(): T?
{\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var min = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n *
Returns the first element having the smallest value according to the
provided [comparator].\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T {\n  val iterator = iterator()\n
if (!iterator.hasNext()) throw NoSuchElementException()\n  var min = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return
min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or
`null` if there are no elements.\n *\n\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n  val iterator = iterator()\n  if
(!iterator.hasNext()) return null\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e =
iterator.next()\n    if (comparator.compare(min, e) > 0) min

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= e\n } \n return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun <T> Iterable<T>.none(): Boolean {\n if (this is
Collection) return isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic
inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty())
return true\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the
given [action] on each element and returns the collection itself afterwards.\n *\n@SinceKotlin("1.1")\npublic
inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential
index with the element,\n * and returns the collection itself afterwards.\n * @param [action] function that takes the
index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\npublic inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit):
C {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an
exception if this collection is empty. If the collection can be empty in an expected way,\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S> Iterable<T>.reduce(operation:
(acc:
S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw
UnsupportedOperationException("Empty collection can't be reduced.")\n var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Throws an
exception if this collection is empty. If the collection can be empty in an expected way,\n * please use
[reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S,
T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n var index =
1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original collection.\n * \n * Returns `null` if the collection
is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the
element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Iterable<T>.reduceIndexedOrNull(operation:
(index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return null\n
var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator =
operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Returns `null` if the collection is empty.\n * \n * @param [operation]
function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if

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(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasNext())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator =
operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with the last element and applying [operation] from right to left\n * to each element with its index in the original list
and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var accumulator: S =
iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n        accumulator
= operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element with its index in the
original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int,
T, acc: S) -> S): S? {\n    val iterator = listIterator(size)\n    if (!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index =
iterator.previousIndex()\n        accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n    while
(iterator.hasPrevious())\n        {\n            accumulator = operation(iterator.previous(), accumulator)\n        }\n    return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) ->
R): List<R> {\n    val estimatedSize = collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n

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    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(accumulator, element)\n    result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation\n values generated by applying [operation] from left to right\n * to each element, its index in the original collection\n and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]\n function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param\n [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and\n calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n *\n@SinceKotlin("1.4")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index:\n Int, acc: R, T) -> R): List<R> {\n    val estimatedSize = collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n    val result = ArrayList<R>(estimatedSize + 1).apply { add(initial)\n    }\n    var index = 0\n    var accumulator = initial\n    for (element in this) {\n        accumulator = operation(index++,\n accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing\n successive accumulation values generated by applying [operation] from left to right\n * to each element and current\n accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to\n [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param\n [operation] function that takes current accumulator value and the element, and calculates the next\n accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic\n inline fun <S, T : S> Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n    val iterator =\n this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result =\n ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    while (iterator.hasNext()) {\n    accumulator = operation(accumulator, iterator.next())\n    result.add(accumulator)\n    }\n    return\n result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from\n left to right\n * to each element, its index in the original collection and current accumulator value that starts with the\n first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the\n index of an element, current accumulator value\n * and the\n element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    val iterator =\n this.iterator()\n    if (!iterator.hasNext()) return emptyList()\n    var accumulator: S = iterator.next()\n    val result =\n ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n    var index = 1\n    while\n (iterator.hasNext()) {\n    accumulator = operation(index++, accumulator, iterator.next())\n    result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation\n values generated by applying [operation] from left to right\n * to each element and current accumulator value that\n starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the\n previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an\n element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scan\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>\n Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    return runningFold(initial,\n operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]\n from left to right\n * to each element, its index in the original collection and current accumulator value that starts\n with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the\n index of an element, current accumulator value\n * and the element itself, and calculates the next

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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n *\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun <T>
Iterable<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n *\n@Deprecated("Use sumOf instead.\",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic
inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for
(element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the collection.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the collection.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n *\npublic fun <T
: Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n for (element in this) {\n if (element == null) {\n
throw IllegalArgumentException("null element found in $this.")\n }\n }\n }\n
*\n@Suppress("UNCHECKED_CAST")\n return this as Iterable<T>\n}\n\n/**\n * Returns an original collection
containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n
*\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n for (element in this) {\n if (element ==
null) {\n throw IllegalArgumentException("null element found in $this.")\n }\n }\n }\n
*\n@Suppress("UNCHECKED_CAST")\n return this as List<T>\n}\n\n/**\n * Splits this collection into a list of
lists each not exceeding the given [size].\n *\n * The last list in the resulting list may have fewer elements than the

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given [size].\n \* \n \* @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n \* \n \* @sample

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samples.collections.Collections.Transformations.chunked\n * \n * @SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n * \n * @SinceKotlin("1.2")\npublic
fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n * \n * @public operator fun <T>
Iterable<T>.minus(element: T): List<T> {\n    val result = ArrayList<T>(collectionSizeOrDefault(10))\n    var removed = false\n    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.\n * \n * @public operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n    if (elements.isEmpty()) return this.toList()\n    return this.filterNot { it in elements }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.\n * \n * @public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n    val other = elements.convertToListIfNotCollection()\n    if (other.isEmpty())\n        return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * @public operator fun <T>
Iterable<T>.minus(elements: Sequence<T>): List<T> {\n    val other = elements.toList()\n    if (other.isEmpty())\n        return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n * \n * @kotlin.internal.InlineOnly\n * \n * @public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n    return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Iterables.Operations.partition\n * \n * @public inline fun <T>
Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n    return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n * \n * @public operator fun <T>
Iterable<T>.plus(element: T): List<T> {\n    if (this is Collection) return this.plus(element)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n * \n * @public operator fun <T> Collection<T>.plus(element: T): List<T> {\n    val result = ArrayList<T>(size + 1)\n    result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n * \n * @public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n * \n * @public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n    val result = ArrayList<T>(this.size + elements.size)\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and

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then all elements of the given [elements] collection.
public operator fun <T> Iterable<T>.plus(elements:
Iterable<T>): List<T> {
    if (this is Collection) return this.plus(elements)
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}
Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.
public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
    if (elements is Collection) {
        val result = ArrayList<T>(this.size + elements.size)
        result.addAll(this)
        result.addAll(elements)
        return result
    } else {
        val result = ArrayList<T>(this)
        result.addAll(elements)
        return result
    }
}
Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.
public operator fun <T> Iterable<T>.plus(elements:
Sequence<T>): List<T> {
    val result = ArrayList<T>()
    result.addAll(this)
    result.addAll(elements)
    return result
}
Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.
public operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {
    val result = ArrayList<T>(this.size + 10)
    result.addAll(this)
    result.addAll(elements)
    return result
}
Returns a list containing all elements of the original collection and then the given [element].
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.plusElement(element: T): List<T> {
    return plus(element)
}
Returns a list containing all elements of the original collection and then the given [element].
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.plusElement(element: T): List<T> {
    return plus(element)
}
Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list.
Several last lists may have fewer elements than the given [size].
Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
@param size the number of elements to take in each window
@param step the number of elements to move the window forward by on each step, by default 1
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
@param sample samples.collections.Sequences.Transformations.takeWindows
@SinceKotlin("1.2")
public fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (windowSize < size && !partialWindows) break
            result.add(List(windowSize) { this[it + index] })
            index += step
        }
        return result
    }
    val result = ArrayList<List<T>>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
        result.add(it)
    }
    return result
}
Returns a list of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this collection with the given [step].
Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
You should not store it or allow it to escape in some way, unless you made a snapshot of it.
Several last lists may have fewer elements than the given [size].
Both [size] and [step] must be positive and can be greater than the number of elements in this collection.
@param size the number of elements to take in each window
@param step the number of elements to move the window forward by on an each step, by default 1
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
@param sample samples.collections.Sequences.Transformations.averageWindows
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize / step + if (thisSize % step

```

```

== 0) 0 else 1\n    val result = ArrayList<R>(resultCapacity)\n    val window = MovingSubList(this)\n    var
index = 0\n    while (index in 0 until thisSize) {\n        val windowSize = size.coerceAtMost(thisSize - index)\n
        if (!partialWindows && windowSize < size) break\n        window.move(index, index + windowSize)\n
        result.add(transform(window))\n        index += step\n    }\n    return result\n }\n val result =
ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n
result.add(transform(it))\n }\n return result\n }\n\n/**\n * Returns a list of pairs built from the elements of `this`
collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *
*\n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n
    return zip(other) { t1, t2 -> t1 to t2 }\n }\n\n/**\n * Returns a list of values built from the elements of `this`
collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair
of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n    val arraySize = other.size\n    val
list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in this) {\n        if
(i >= arraySize) break\n        list.add(transform(element, other[i++]))\n    }\n    return list\n }\n\n/**\n * Returns a list
of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list
has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic
infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n }\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val first = iterator()\n    val second
= other.iterator()\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
other.collectionSizeOrDefault(10)))\n    while (first.hasNext() && second.hasNext()) {\n
list.add(transform(first.next(), second.next()))\n    }\n    return list\n }\n\n/**\n * Returns a list of pairs of each two
adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n *
*\n * @sample
samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n    return zipWithNext { a, b -> a to b }\n }\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this
collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin("1.2")\npublic
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return emptyList()\n    val result = mutableListOf<R>()\n    var current = iterator.next()\n
while (iterator.hasNext()) {\n        val next = iterator.next()\n        result.add(transform(current,
next))\n        current = next\n    }\n    return result\n }\n\n/**\n * Appends the string from all the elements separated
using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you
can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended,
followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable>
Iterable<T>.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "", postfix: CharSequence
= "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n
        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n
        }\n        else break\n    }\n    if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n
return buffer\n }\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given

```

```

[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n * \npublic fun
<T> Iterable<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence
= "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n
return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns
this collection as an [Iterable].\n * \n\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n    return this\n}\n\n/**\n * Creates a [Sequence] instance
that wraps the original collection returning its elements when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n * \npublic fun <T> Iterable<T>.asSequence():
Sequence<T> {\n    return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the
collection.\n * \n\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Iterable<Byte>.average(): Double {\n    var
sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun
Iterable<Short>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
        sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Iterable<Int>.average(): Double {\n    var sum: Double =
0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n        checkCountOverflow(++count)\n
}\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
collection.\n * \n\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun Iterable<Long>.average(): Double {\n
var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun
Iterable<Float>.average():
Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n        sum += element\n
checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n * \n\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun
Iterable<Double>.average(): Double {\n    var sum: Double = 0.0\n    var count: Int = 0\n    for (element in this) {\n
sum += element\n        checkCountOverflow(++count)\n    }\n    return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Iterable<Byte>.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n * \n\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n    var sum: Int
= 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
elements in the collection.\n * \n\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n    var
sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of
all elements in the collection.\n * \n\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun Iterable<Long>.sum():
Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n
* Returns the sum of all elements in the collection.\n * \n\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun
Iterable<Float>.sum(): Float {\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n    var sum: Double
= 0.0\n
for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/\n * Copyright 2010-2023 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n * \n\npackage kotlin.collections\nimport

```



```

kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\nimport kotlin.js.arrayBufferIsView\n\n/**\n * Returns the array if it's not `null`, or an empty array otherwise.\n * @sample
samples.collections.Arrays.Usage.arrayOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T>\nArray<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\n\n/**\n * Returns a *typed* array containing\n all of the elements of this collection.\n *\n * Allocates an array of runtime type `T` having its size equal to the size\n of this collection\n * and populates the array with the elements of this collection.\n * @sample
samples.collections.Collections.Collections.collectionToTypedArray\n\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toArray(): Array<T> =\ncopyToArray(this)\n\n@JsName("copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:\nCollection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !== undefined)\n        collection.asDynamic().toArray().unsafeCast<Array<T>>()\n    else\n        copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("copyToArrayImpl")\ninternal actual fun\ncopyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator\n= collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n    return\narray\n}\n\n@JsName("copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:\nCollection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n        return\ncopyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n    val iterator = collection.iterator()\n    var index = 0\n    while (iterator.hasNext()) {\n        array[index++] =\niterator.next().unsafeCast<T>()\n    }\n    if (index < array.size) {\n        array[index] = null.unsafeCast<T>()\n    }\n    return array\n}\n\n/**\n * Returns a new read-only list containing only the specified object [element].\n * @sample
samples.collections.Collections.Lists.singletonReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic actual fun <T> listOf(element:\nT): List<T> =\narrayListOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual\ninline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E> {\n    return\nArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.Inlin\neOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit):\nList<E> {\n    checkBuilderCapacity(capacity)\n    return\nArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns a new read-only set containing only the specified object [element].\n * @sample
samples.collections.Collections.Sets.singletonReadOnlySet\n */\n@kotlin.internal.InlineOnly\npublic actual fun <T> setOf(element: T): Set<T>\n= hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual\ninline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E> {\n    return\nLinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit):\nSet<E> {\n    return\nLinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.in\nternal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() ->\nUnit): Map<K, V> {\n    return LinkedHashMap<K,\nV>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninte\nrnal\nactual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K,\nV> {\n    return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the\n provided [value].\n *\n * Each element in the list gets replaced with the [value].\n * @since Kotlin("1.2")\n */\n@kotlin.internal.InlineOnly\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n    for (index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n * Randomly shuffles elements in this list.\n * @sample\n * See:\n * https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n * @since Kotlin("1.2")\n */\n@kotlin.internal.InlineOnly\npublic actual fun

```

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<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }
* Sorts elements in the list in-place according to their natural sort order.
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* @sample
samples.collections.Collections.Sorting.sortMutableList
public actual fun <T : Comparable<T>>
MutableList<T>.sort(): Unit {
    collectionsSort(this, naturalOrder())
}
* Sorts elements in the list in-place according to the order specified with [comparator].
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* @sample
samples.collections.Collections.Sorting.sortMutableListWith
public actual fun <T>
MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {
    collectionsSort(this, comparator)
}
private fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {
    if (list.size <= 1) return
    val array = copyToArray(list)
    sortArrayWith(array, comparator)
    for (i in 0 until array.size) {
        list[i] = array[i]
    }
}
internal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {
    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()
}
@SinceKotlin("1.3")
@PublishedApi
@JsName("arrayCopy")
internal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    val rangeSize = endIndex - startIndex
    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)
    if (arrayBufferIsView(destination) && arrayBufferIsView(source)) {
        val subrange = source.asDynamic().subarray(startIndex, endIndex)
        destination.asDynamic().set(subrange, destinationOffset)
    } else {
        if (source !== destination || destinationOffset <= startIndex) {
            for (index in 0 until rangeSize) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        } else {
            for (index in rangeSize - 1 downTo 0) {
                destination[destinationOffset + index] = source[startIndex + index]
            }
        }
    }
}
// no singleton map implementation in js, return map as is
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()
@Suppress("NOTHING_TO_INLINE")
internal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =
    if (isVarargs) // no need to copy vararg array in JS
        this
    else
        this.copyOf()
@PublishedApi
internal actual fun checkIndexOverflow(index: Int): Int {
    if (index < 0) {
        throwIndexOverflow()
    }
    return index
}
@PublishedApi
internal actual fun checkCountOverflow(count: Int): Int {
    if (count < 0) {
        throwCountOverflow()
    }
    return count
}
* JS map and set implementations do not make use of capacities or load factors.
* @PublishedApi
internal actual fun mapCapacity(expectedSize: Int) = expectedSize
* Checks a collection builder function capacity argument.
* In JS no validation is made in Map/Set constructor yet.
* @SinceKotlin("1.3")
@PublishedApi
internal fun checkBuilderCapacity(capacity: Int) {
    require(capacity >= 0) { "capacity must be non-negative." }
}
* Returns a new read-only map, mapping only the specified key to the specified value.
* @sample
samples.collections.Maps.Instantiation.mapFromPairs
public actual fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
* @file:kotlin.jvm.JvmMultifileClass
* @file:kotlin.jvm.JvmName("CollectionsKt")
package kotlin.collections
* Returns the given iterator itself. This allows to use an instance of iterator in a `for` loop.
* @sample samples.collections.Iterators.iterator
* @kotlin.internal.InlineOnly
public inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this
* Returns an [Iterator] that wraps each element produced by the original iterator into an [IndexedValue] containing the index of that element and the element itself.
* @sample samples.collections.Iterators.withIndexIterator
public fun <T> Iterator<T>.withIndex():

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```

Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/**\n * Performs the given [operation] on each element of
this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n */\npublic inline fun <T>
Iterator<T>.forEach(operation:
    (T) -> Unit): Unit {\n    for (element in this) operation(element)\n}\n\n/**\n * Iterator transforming original
`iterator` into iterator of [IndexedValue], counting index from zero.\n */\ninternal class IndexingIterator<out
T>(\n    private val iterator: Iterator<T>): Iterator<IndexedValue<T>> {\n    private var index = 0\n    final override fun
hasNext(): Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n\n"/>\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.random.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n
*/\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the
greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a:
Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short):
Short\n\n/**\n * Returns the greater of two values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**
 * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`,
returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n * \n * If either
value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun
maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple
equal maximal values, returns the first of them.\n */\n@SinceKotlin("1.1")\npublic expect fun <T :
Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the greater of three values.\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int):
Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n * \n * If
any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n * \n * If any value
is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun
maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order
specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n
*/\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n    return
maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater
of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the
first one.\n */\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n
return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If
there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin("1.4")\npublic expect fun
<T : Comparable<T>> maxOf(a: T, vararg other: T): T\n\n/**\n * Returns the greater of the given values.\n
*/\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the

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greater of the given values.  
`*\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the greater of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the greater of the given values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the greater of the given values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic expect fun maxOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the greater of the given values according to the order specified by the given [comparator].\n *\n * If there are multiple equal maximal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n var max = a\n for (e in other) if (comparator.compare(max, e) < 0) max = e\n return max\n}\n\n/**\n * Returns the smaller of two values.\n *\n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n *\n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n *\n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n *\n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n *\n * If values are equal, returns the first one.\n *\n@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n return if (comparator.compare(a, b) <= 0) a else b\n}\n\n/**\n * Returns the smaller of the given values.\n *\n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin("1.4")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin("1.4")\npublic expect fun minOf(a: Comparable<T>, vararg other: Comparable<T>): Comparable<T>`

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*\/n@SinceKotlin("1.4")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n/n/**\n * Returns the smaller of the given values.\n *\/n@SinceKotlin("1.4")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n/n/**\n * Returns the smaller of the given values.\n *\/n@SinceKotlin("1.4")\npublic expect fun minOf(a: Long, vararg other: Long): Long\n/n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\/n@SinceKotlin("1.4")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n/n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\/n@SinceKotlin("1.4")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n/n/**\n * Returns the smaller of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\/n@SinceKotlin("1.4")\npublic fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n    var min = a\n    for (e in other) if (comparator.compare(min, e) > 0) min = e\n    return min\n}\n/n",*/\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n*\/n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage kotlin.collections\n/n\n/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n/n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\/n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n    return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the map was transformed to a non-null value.")\n}\n/n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\/n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n    for (element in this) {\n        val result = transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n/n\n/**\n * Returns a [List] containing all key-value pairs.\n *\/n\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return result\n}\n/n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *\/n\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n/n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n *\/n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n/n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n *\/n\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n}\n
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} \n return destination \n } \n \n /** \n * Appends all elements yielded from results of [transform] function being
invoked on each entry of original map, to the given [destination]. \n
*\n @SinceKotlin("1.4") \n @OptIn(kotlin.experimental.ExperimentalTypeInference::class) \n @OverloadResolution
ByLambdaReturnType \n @kotlin.jvm.JvmName("flatMapSequenceTo") \n public inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C { \n for (element in this) { \n val list = transform(element) \n destination.addAll(list) \n
} \n return destination \n } \n \n /** \n * Returns a
list containing the results of applying the given [transform] function \n * to each entry in the original map. \n * \n *
@sample samples.collections.Maps.Transformations.mapToList \n * \n public inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> { \n return mapTo(ArrayList<R>(size),
transform) \n } \n \n /** \n * Returns a list containing only the non-null results of applying the given [transform]
function \n * to each entry in the original map. \n * \n * @sample
samples.collections.Maps.Transformations.mapNotNull \n * \n public inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> { \n return mapNotNullTo(ArrayList<R>(),
transform) \n } \n \n /** \n * Applies the given [transform] function to each entry in the original map \n * and appends
only the non-null results to the given [destination]. \n * \n public inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K,
V>) -> R?): C { \n forEach { element -> transform(element)?.let { destination.add(it) } } \n return
destination \n } \n \n /** \n * Applies the given [transform] function to each entry of the original map \n * and appends
the results to the given [destination]. \n * \n public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K,
V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C { \n for (item in this) \n
destination.add(transform(item)) \n return destination \n } \n \n /** \n * Returns `true` if all entries match the given
[predicate]. \n * \n * Note that if the map contains no entries, the function returns `true` \n * because there are no
entries in it that _do not_ match the predicate. \n * See a more detailed explanation of this logic concept in
["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article. \n * \n * @sample
samples.collections.Collections.Aggregates.all \n * \n public inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean):
Boolean { \n if (isEmpty()) return true \n for (element in this) if (!predicate(element)) return false \n return
true \n } \n \n /** \n * Returns `true` if map has at least one entry. \n * \n * @sample
samples.collections.Collections.Aggregates.any \n * \n public fun <K, V> Map<out K, V>.any(): Boolean { \n
return !isEmpty() \n } \n \n /** \n * Returns `true` if at least one entry matches the given [predicate]. \n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate \n * \n public inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean { \n if (isEmpty()) return false \n for (element in
this) if (predicate(element)) return true \n return false \n } \n \n /** \n * Returns the number of entries in this map. \n
*\n @kotlin.internal.InlineOnly \n public inline fun <K, V> Map<out K, V>.count(): Int { \n return size \n } \n \n /** \n
* Returns the number of entries matching the given [predicate]. \n * \n public inline fun <K, V> Map<out K,
V>.count(predicate:
(Map.Entry<K, V>) -> Boolean): Int { \n if (isEmpty()) return 0 \n var count = 0 \n for (element in this) if
(predicate(element)) ++count \n return count \n } \n \n /** \n * Performs the given [action] on each entry. \n
*\n @kotlin.internal.HidesMembers \n public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>)
-> Unit): Unit { \n for (element in this) action(element) \n } \n \n /** \n * Returns the first entry yielding the largest
value of the given function. \n * \n * @throws NoSuchElementException if the map is empty. \n * \n * @sample
samples.collections.Collections.Aggregates.maxBy \n * \n @SinceKotlin("1.7") \n @kotlin.jvm.JvmName("maxByOrThrow") \n @kotlin.internal.InlineOnly \n @Suppress
("CONFLICTING_OVERLOADS") \n public inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V> { \n return entries.maxBy(selector) \n } \n \n /** \n
* Returns the first entry yielding the largest value of the given function or `null` if there

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are no entries.\n \* \n \* @sample samples.collections.Collections.Aggregates.maxByOrNull\n

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*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Double): Double {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Float): Float {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n    return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n    return entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n    return
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entries.maxOfWithOrNull(comparator, selector)\n\n/**\n * Returns the first entry having the largest value
according to the provided [comparator].\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator:
Comparator<in Map.Entry<K, V>>): Map.Entry<K, V> {\n    return entries.maxWith(comparator)\n}\n\n/**\n *
Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no
entries.\n * \n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return
entries.maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given
function.\n * \n * @throws NoSuchElementException if the map is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V> {\n    return entries.minBy(selector)\n}\n\n/**\n *
Returns the first entry yielding
the smallest value of the given function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return
entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest
value among
all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is
empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n    return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n    return entries.minOf(selector)\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map
or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n    return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

```



```

inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n  return
entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n  return entries.minOfOrNull(selector)\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) ->
R): R {\n  return entries.minOfWith(comparator, selector)\n}\n\n/**\n * Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or
`null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n  return
entries.minOfWithOrNull(comparator, selector)\n}\n\n/**\n * Returns the first entry having the smallest value
according to the provided [comparator].\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS")\npublic
inline fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>
{\n  return entries.minWith(comparator)\n}\n\n/**\n * Returns the first entry having the smallest value according
to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n  return
entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n
return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n  if (isEmpty()) return
true\n  for (element in this) if (predicate(element)) return false\n  return true\n}\n\n/**\n * Performs the given
[action] on each entry and returns the map itself afterwards.\n *\n@SinceKotlin("1.1")\npublic inline fun <K, V,
M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n  return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the
entry,\n * and returns the map itself afterwards.\n * @param [action] function that takes the index of an entry and
the entry itself\n * and performs the action on the entry.\n *\n@SinceKotlin("1.4")\npublic inline fun <K, V, M :
Map<out K, V>> M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n  return apply {
entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning
its entries when being iterated.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <K,
V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n  return entries\n}\n\n/**\n * Creates a
[Sequence] instance that wraps the original map returning its entries when being iterated.\n * \n * @sample
samples.collections.Sequences.Building.sequenceFromMap\n *\npublic fun <K, V> Map<out K, V>.asSequence():
Sequence<Map.Entry<K, V>> {\n  return entries.asSequence()\n}\n\n", "/*\n * Copyright 2010-2023 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\n@kotlin.package kotlin.text\n@/\n// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n@/\n// 10 mappings totally\ninternal fun

```

```

Char.titlecaseImpl(): String {
    val uppercase = uppercase()
    if (uppercase.length > 1) {
        return if (this ==
        "\u0149") uppercase else uppercase[0] + uppercase.substring(1).lowercase()
    }
    return titlecaseChar().toString()
}

/* Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.
* Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
*/
package kotlin.text

/**
 * Converts this character to lower case using Unicode
mapping rules of the invariant locale.
*/
@Deprecated("Use lowercaseChar() instead.",
ReplaceWith("lowercaseChar()"))
@DeprecatedSinceKotlin(warningSince =
"1.5")
@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char =
lowercaseChar()

/**
 * Converts this character to lower case using Unicode mapping rules of the invariant
locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
mapping use the [toLowerCase] function.
 * If this character has no mapping equivalent, the character itself is
returned.
 */
@sample samples.text.Chars.toLowerCase

/**
 * @since Kotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
@kotlin.internal.InlineOnly
public
c actual inline fun Char.lowercaseChar(): Char = lowercase()[0]

/**
 * Converts this character to lower case
using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many character mapping,
thus the length of the returned string can be greater than one.
 * For example, `'\u0130'.toLowerCase()` returns
`'\u0069\u0307'`,
 * where `'\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character
(`\u0130`).
 * If this character has no lower case mapping, the result of `toString()` of this char is returned.
 */
@sample samples.text.Chars.lowercaseChar

/**
 * @since Kotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
@kotlin.internal.InlineOnly
public
c actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()

/**
 * Converts this character to upper case using Unicode mapping
rules of the invariant locale.
*/
@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))
@DeprecatedSinceKotlin(warningSince =
"1.5")
@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char =
uppercaseChar()

/**
 * Converts this character to upper case using Unicode mapping rules of the invariant
locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
mapping use the [toUpperCase] function.
 * If this character has no mapping equivalent, the character itself is
returned.
 */
@sample samples.text.Chars.toUpperCase

/**
 * @since Kotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
public actual fun
Char.uppercaseChar(): Char {
    val uppercase = uppercase()
    return if (uppercase.length > 1) this else
uppercase[0]
}

/**
 * Converts this character to upper case using Unicode mapping rules of the invariant
locale.
 * This function supports one-to-many character
mapping, thus the length of the returned string can be greater than one.
 * For example, `'\uFB00'.uppercase()`
returns `'\u0046\u0046'`,
 * where `'\uFB00` is the LATIN SMALL LIGATURE FF character (`\ufb00`).
 * If this character has no upper case mapping, the result of `toString()` of this char is returned.
 */
@sample
samples.text.Chars.uppercase

/**
 * @since Kotlin("1.5")
 * @WasExperimental(ExperimentalStdlibApi::class)
 */
@kotlin.internal.InlineOnly
public
c actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()

/**
 * Converts this character to title case using Unicode mapping rules of the invariant locale.
 * This function
performs one-to-one character mapping.
 * To support one-to-many character mapping use the [titlecase]
function.
 * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.
 */
@sample samples.text.Chars.titlecase

/**
 * @since Kotlin("1.5")
 */
public
actual fun Char.titlecaseChar(): Char = titlecaseCharImpl()

/**
 * Returns `true` if this character is a Unicode
high-surrogate code unit (also known as leading-surrogate code unit).
 */
@public actual fun
Char.isHighSurrogate(): Boolean = this.in

Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE

/**
 * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).
 */
@public actual fun

```

```

Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general
category of this character.\n *\n@SinceKotlin("1.5")\npublic actual val Char.category: CharCategory\n  get() =
CharCategory.valueOf(getCategoryValue())\n\n/**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n *\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isDefined():
Boolean {\n  if (this < "\u0080") {\n    return true\n  }\n  return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *\n [CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n *\n * @sample
samples.text.Chars.isLetter\n *\n@SinceKotlin("1.5")\npublic actual fun Char.isLetter(): Boolean {\n  if (this in
'a..'z' || this in 'A..'Z') {\n    return true\n  }\n  if (this < "\u0080") {\n    return false\n  }\n  return
isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a letter or digit.\n *\n * @see isLetter\n * @see
isDigit\n *\n * @sample samples.text.Chars.isLetterOrDigit\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isLetterOrDigit(): Boolean {\n  if (this in 'a..'z' || this in 'A..'Z'
|| this in '0..'9') {\n    return true\n  }\n  if (this < "\u0080") {\n    return false\n  }\n  return isDigitImpl() ||
isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a digit.\n *\n * A character is considered to be a digit if
its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isDigit(): Boolean {\n  if (this in '0..'9') {\n    return true\n
}\n  if (this < "\u0080") {\n    return false\n  }\n  return isDigitImpl()\n}\n\n/**\n * Returns `true` if this
character is upper case.\n *\n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n *\n or it has contributory property `Other_Uppercase` as defined by the
Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n *\n@SinceKotlin("1.5")\npublic actual fun
Char.isUpperCase(): Boolean {\n  if (this in 'A..'Z')
{\n    return true\n  }\n  if (this < "\u0080") {\n    return false\n  }\n  return isUpperCaseImpl()\n}\n\n/**\n
* Returns `true` if this character is lower case.\n *\n * A character is considered to be a lower case character if its
[category] is [CharCategory.LOWERCASE_LETTER],\n *\n or it has contributory property `Other_Lowercase` as
defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isLowerCase(): Boolean {\n  if (this in 'a..'z') {\n    return
true\n  }\n  if (this < "\u0080") {\n    return false\n  }\n  return isLowerCaseImpl()\n}\n\n/**\n * Returns
`true` if this character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is
[CharCategory.TITLECASE_LETTER].\n *\n * @sample samples.text.Chars.isTitleCase\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isTitleCase(): Boolean {\n  if (this < "\u0080") {\n
    return false\n  }\n  return getCategoryValue() == CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns
`true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control
character if its [category] is [CharCategory.CONTROL],\n *\n meaning the Char is in the range `"\u0000".."\u001F`
or in the range `"\u007F".."\u009F".\n *\n * @sample samples.text.Chars.isISOControl\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isISOControl(): Boolean {\n  return this <= "\u001F" || this in
"\u007F".."\u009F"\n}\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n
*\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n
*\n@SinceKotlin("1.5")\npublic actual fun Char.isWhitespace(): Boolean = isWhitespaceImpl()", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can
be found in the license/LICENSE.txt file.\n *\n@npackage kotlin.text\nimport kotlin.js.RegExp\n\n/**\n *
Converts the characters in the specified array to a string.\n *\n@SinceKotlin("1.2")\n@Deprecated("Use
CharArray.concatToString() instead",
ReplaceWith("chars.concatToString()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5")\npublic actual fun String(chars: CharArray): String {\n  var result = ""\n  for (char in chars) {\n

```

```

result += char\n } \n return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a
string.\n * \n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset +
length` is out of [chars] array bounds.\n * \n @SinceKotlin("1.2")\n @Deprecated("Use
CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset +
length)")\n @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")\n public
actual fun String(chars: CharArray, offset: Int, length: Int): String {\n if (offset < 0 || length < 0 || chars.size -
offset < length)\n throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n
var result = ""\n for (index in offset until offset + length) {\n result += chars[index]\n }\n return
result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun
CharArray.concatToString(): String {\n var result = ""\n for (char in this) {\n result += char\n }\n
return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n * \n * @param
startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end
(exclusive) of the subrange of characters, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException
if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n @Suppress("ACTUAL_FUNCTI
ON_WITH_DEFAULT_ARGUMENTS")\n public actual fun CharArray.concatToString(startIndex: Int = 0,
endIndex: Int = this.size): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n var
result = ""\n for (index in startIndex until endIndex) {\n result += this[index]\n }\n return
result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun
String.toCharArray(): CharArray {\n return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string or its substring.\n * \n * @param startIndex the beginning (inclusive) of
the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by
default.\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than
the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n @Suppress("ACTUAL_FUNCTI
ON_WITH_DEFAULT_ARGUMENTS")\n public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int
= this.length): CharArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return
CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8
encoding in this array.\n * \n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public actual fun
ByteArray.decodeToString(): String {\n
return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this
array or its subrange.\n * \n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n
* @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n * @param
throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the
replacement char `\\uFFFD`.\n * \n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
[endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater
than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte
sequence and [throwOnInvalidSequence] is true.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n @Suppress("ACTUAL_FUNCTI
ON_WITH_DEFAULT_ARGUMENTS")\n public actual fun ByteArray.decodeToString(\n
startIndex: Int = 0, \n endIndex: Int = this.size, \n throwOnInvalidSequence: Boolean = false\n): String {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n * \n * Any

```

malformed char sequence is replaced by the replacement byte sequence.

```

*\/n@SinceKotlin("1.4")\/n@WasExperimental(ExperimentalStdlibApi::class)\/npublic actual fun
String.encodeToByteArray(): ByteArray {\/n    return encodeUtf8(this, 0, length, false)\/n}\/n\/n**\/n * Encodes this
string or its substring to an array of bytes in UTF-8 encoding.\/n *\/n * @param startIndex the beginning (inclusive)
of the substring to encode, 0 by default.\/n * @param endIndex the end (exclusive) of the substring to encode, length
of this string by default.\/n * @param throwOnInvalidSequence specifies whether to throw an exception on
malformed char sequence or replace.\/n *\/n
* @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of
this string.\/n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\/n * @throws
CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\/n
*\/n@SinceKotlin("1.4")\/n@WasExperimental(ExperimentalStdlibApi::class)\/n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\/npublic actual fun String.encodeToByteArray(\/n    startIndex: Int = 0,\/n
endIndex: Int = this.length,\/n    throwOnInvalidSequence: Boolean = false\/n): ByteArray {\/n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\/n    return encodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\/n}\/n\/n**\/n * Returns a copy of this string converted to upper case using the rules of the
default locale.\/n *\/n@Deprecated("Use uppercase() instead.",
ReplaceWith("uppercase()"))\/n@DeprecatedSinceKotlin(warningSince =
"1.5")\/n@kotlin.internal.InlineOnly\/npublic
actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\/n\/n**\/n * Returns a copy of this
string converted to upper case using Unicode mapping rules of the invariant locale.\/n *\/n * This function supports
one-to-many and many-to-one character mapping,\/n * thus the length of the returned string can be different from the
length of the original string.\/n *\/n * @sample samples.text.Strings.uppercase\/n
*\/n@SinceKotlin("1.5")\/n@WasExperimental(ExperimentalStdlibApi::class)\/n@kotlin.internal.InlineOnly\/npublic
c actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\/n\/n**\/n * Returns a copy of this string
converted to lower case using the rules of the default locale.\/n *\/n@Deprecated("Use lowercase() instead.",
ReplaceWith("lowercase()"))\/n@DeprecatedSinceKotlin(warningSince =
"1.5")\/n@kotlin.internal.InlineOnly\/npublic actual inline fun String.toLowerCase(): String =
asDynamic().toLowerCase()\/n\/n**\/n *
Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\/n *\/n *
This function supports one-to-many and many-to-one character mapping,\/n * thus the length of the returned string
can be different from the length of the original string.\/n *\/n * @sample samples.text.Strings.lowercase\/n
*\/n@SinceKotlin("1.5")\/n@WasExperimental(ExperimentalStdlibApi::class)\/n@kotlin.internal.InlineOnly\/npublic
c actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\/n@kotlin.internal.InlineOnly\/ninternal
actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,
fromIndex)\/n\/n@kotlin.internal.InlineOnly\/ninternal actual inline fun String.nativeLastIndexOf(str: String,
fromIndex: Int): Int = asDynamic().lastIndexOf(str,
fromIndex)\/n\/n@kotlin.internal.InlineOnly\/n@kotlin.js.JsPolyfill("\n\n"nif (typeof String.prototype.startsWith ===
"undefined") {\/n    Object.defineProperty(String.prototype, "startsWith",
{\/n        value: function (searchString, position) {\/n            position = position || 0;\/n            return
this.lastIndexOf(searchString, position) === position;\/n        }\/n    });\/n}\/n}\/n\n\n")\/ninternal inline fun
String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,
position)\/n\/n@kotlin.internal.InlineOnly\/n@kotlin.js.JsPolyfill("\n\n"nif (typeof String.prototype.endsWith ===
"undefined") {\/n    Object.defineProperty(String.prototype, "endsWith", {\/n        value: function (searchString,
position) {\/n            var subjectString = this.toString();\/n            if (position === undefined || position >
subjectString.length) {\/n                position = subjectString.length;\/n            }\/n            position -=
searchString.length;\/n            var lastIndex = subjectString.indexOf(searchString, position);\/n            return lastIndex
!== -1 && lastIndex === position;\/n        }\/n    });\/n}\/n}\/n\n\n")\/ninternal inline fun String.nativeEndsWith(s:

```

```

String): Boolean = asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic
actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
endIndex)\n\n@Deprecated("Use String.plus() instead", ReplaceWith("this +
str"))\n\n@DeprecatedSinceKotlin(warningSince = "1.6")\n\n@kotlin.internal.InlineOnly\npublic inline fun
String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated("Use Regex.findAll() instead or
invoke matches() on String dynamically:
this.asDynamic().match(regex)")\n\n@DeprecatedSinceKotlin(warningSince =
"1.6")\n\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex: String): Array<String>? =
asDynamic().match(regex)\n\n//native public fun String.trim(): String\n\n//TODO: String.replace to implement
effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\n\ninternal
inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,
replacement)\n\n/**\n * Compares two strings lexicographically, optionally ignoring case differences.\n * If
[ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.\n
*\n * @since Kotlin("1.2")\n * @suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\npublic
actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 =
this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        for
(index in 0 until min) {\n            var thisChar = this[index]\n            var otherChar = other[index]\n            if
(thisChar != otherChar) {\n                thisChar = thisChar.uppercaseChar()\n                otherChar =
otherChar.uppercaseChar()\n                if (thisChar !=
otherChar) {\n                    thisChar = thisChar.lowercaseChar()\n                    otherChar =
otherChar.lowercaseChar()\n                    if (thisChar != otherChar) {\n                        return
thisChar.compareTo(otherChar)\n                    }\n                }\n            }\n        }\n        return n1 - n2\n    } else {\n
return compareTo(other)\n    }\n}\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the
contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the
same order.\n * @sample samples.text.Strings.contentEquals\n * @since Kotlin("1.5")\n\npublic actual infix
fun CharSequence?.contentEquals(other: CharSequence?): Boolean = contentEqualsImpl(other)\n\n/**\n * Returns
`true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case
difference.\n * @param ignoreCase `true` to ignore character
case when comparing contents.\n * @sample samples.text.Strings.contentEquals\n
*\n * @since Kotlin("1.5")\n\npublic actual fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase:
Boolean): Boolean {\n    return if (ignoreCase)\n        this.contentEqualsIgnoreCaseImpl(other)\n    else\n
this.contentEqualsImpl(other)\n}\n\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String>
{ a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin("1.2")\n\npublic actual val
String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n    get() =
STRING_CASE_INSENSITIVE_ORDER\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n * @file: kotlin.jvm.JvmMultifileClass\n * @file: kotlin.jvm.JvmName("CharsKt")\n\npackage kotlin.text\n\n/**\n
*\n * Returns the numeric value of the decimal digit that this Char represents.\n
*\n * Throws an exception if this Char is not a valid decimal digit.\n * A Char is considered to represent a decimal
digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n
*\n * @sample samples.text.Chars.digitToInt\n
*\n * @since Kotlin("1.5")\n * @wasExperimental(ExperimentalStdlibApi::class)\n\npublic fun Char.digitToInt(): Int
{\n    return digitOf(this, 10).also {\n        if (it < 0) throw IllegalArgumentException("Char $this is not a decimal
digit")\n    }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix].\n
*\n * Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the
specified [radix].\n * A Char is considered to represent a digit in the specified [radix] if at least one of the
following is

```

true: \n \* - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified

[radix]. In this case the decimal digit value is returned. \n \* - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned. \n \* - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned. \n \* - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned. \n \* - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned. \n \* \n \* @sample samples.text.Chars.digitToInt

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int {\n    return digitToIntOrNull(radix)
```

```
? : throw IllegalArgumentException("`Char $this is not a digit in the given radix=$radix`")\n}\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if this Char is not a valid decimal digit.\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char. \n * In this case, the Unicode decimal digit value of the character is returned. \n * \n * @sample samples.text.Chars.digitToIntOrNull
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
```

```
Char.digitToIntOrNull(): Int? {\n    return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the specified [radix]. \n * Throws an exception if the [radix] is not in the range `2..36`. \n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n
```

```
* - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned. \n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned. \n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned. \n * - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned. \n * - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned. \n * \n * @sample samples.text.Chars.digitToIntOrNull
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
```

```
fun Char.digitToIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n    return digitOf(this, radix).takeIf { it >= 0 }\n}\n\n/**\n * Returns the Char that represents this decimal digit. \n * Throws an exception if this value is not in the range `0..9`. \n * If this value is in `0..9`, the decimal digit Char with code `0'.code + this` is returned. \n * \n * @sample samples.text.Chars.digitToChar
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n    if (this in 0..9) {\n        return '0' + this\n    }\n    throw IllegalArgumentException("`Int $this is not a decimal digit`")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix]. \n * Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0` until radix`. \n * If this value is less than `10`, the decimal digit Char with code
```

```
`0'.code + this` is returned. \n * Otherwise, the uppercase Latin letter with code `A'.code + this - 10` is returned. \n * \n * @sample samples.text.Chars.digitToChar
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix: Int): Char {\n    if (radix !in 2..36) {\n        throw IllegalArgumentException("Invalid radix: $radix. Valid radix values are in range 2..36")\n    }\n    if (this < 0 || this >= radix) {\n        throw IllegalArgumentException("Digit $this does not represent a valid digit in radix $radix")\n    }\n    return if (this < 10) {\n        '0' + this\n    } else {\n        'A' + this - 10\n    }\n}\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale. \n * \n * @Deprecated("Use lowercaseChar() instead.")
```

```

ReplaceWith("lowercaseChar()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower
case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character
mapping.\n * To support one-to-many character mapping use the [toLowerCase] function.\n * If this character has no
mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Char.toLowerCaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the
invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned
string can be greater than one.\n * For example, "\u0130".toLowerCase() returns "\u0069\u0307",\n * where
"\u0130" is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (\u0130).\n * If this character has
no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample
samples.text.Chars.toLowerCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Char.toLowerCase(): String\n\n/**\n * Converts this character to upper case using Unicode mapping rules
of the invariant locale.\n *\n * @Deprecated("Use uppercaseChar() instead.")
ReplaceWith("uppercaseChar()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
Char.toUpperCase(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many
character mapping use the [toUpperCase] function.\n * If this character has no mapping equivalent, the character itself
is returned.\n *\n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Char.toUpperCaseChar(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the
invariant locale.\n *\n * This function supports
one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example,
"\uFB00".toUpperCase() returns "\u0046\u0046",\n * where "\uFB00" is the LATIN SMALL LIGATURE FF
character (\uFB00).\n * If this character has no upper case mapping, the result of `toString()` of this char is
returned.\n *\n * @sample samples.text.Chars.toUpperCase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Char.toUpperCase(): String\n\n/**\n * Converts this character to title case using Unicode mapping rules of the
invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many
character mapping use the [titlecase] function.\n * If this character has no mapping equivalent, the result of calling
[toUpperCaseChar] is returned.\n *\n * @sample samples.text.Chars.titlecase\n
*/\n@SinceKotlin("1.5")\npublic expect fun Char.titlecaseChar(): Char\n\n/**\n * Converts this character
to title case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many
character mapping, thus the length of the returned string can be greater than one.\n * For example,
"\uFB00".titlecase() returns "\u0046\u0066",\n * where "\uFB00" is the LATIN SMALL LIGATURE FF
character (\uFB00).\n * If this character has no title case mapping, the result of [toUpperCase] is returned instead.\n
*\n * @sample samples.text.Chars.titlecase\n
*/\n@SinceKotlin("1.5")\npublic fun Char.titlecase(): String =
titlecaseImpl()\n\n/**\n * Concatenates this Char and a String.\n *\n * @sample samples.text.Chars.plus\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() +
other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n
*\n * Two characters are considered equal ignoring case if `Char.toUpperCaseChar().toLowerCaseChar()` on each
character produces the same result.\n *\n * @param ignoreCase `true` to ignore character case when comparing
characters. By default `false`.\n *\n * @sample samples.text.Chars.equals\n
*/\npublic fun Char.equals(other: Char,
ignoreCase: Boolean = false): Boolean {\n    if (this == other) return true\n    if (!ignoreCase) return false\n\n    val
thisUpper = this.toUpperCaseChar()\n    val otherUpper = other.toUpperCaseChar()\n    return thisUpper == otherUpper
|| thisUpper.toLowerCaseChar() == otherUpper.toLowerCaseChar()\n}\n\n/**\n * Returns `true` if this character is a
Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in

```



```

Char.MIN_SURROGATE..Char.MAX_SURROGATE\n\n/**\n * Returns the Unicode general category of this
character.\n *\n@SinceKotlin("1.5")\npublic expect val Char.category: CharCategory\n\n/**\n * Returns `true` if
this character (Unicode code point) is defined in Unicode.\n *\n * A character is considered to be defined in Unicode
if its [category] is
    not [CharCategory.UNASSIGNED].\n *\n@SinceKotlin("1.5")\npublic expect fun Char.isDefined():
Boolean\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is considered to be a letter if its
[category] is [CharCategory.UPPERCASE_LETTER],\n * [CharCategory.LOWERCASE_LETTER],
[CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or
[CharCategory.OTHER_LETTER].\n *\n * @sample samples.text.Chars.isLetter\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isLetter(): Boolean\n\n/**\n * Returns `true` if this character is a
letter or digit.\n *\n * @see isLetter\n * @see isDigit\n *\n * @sample samples.text.Chars.isLetterOrDigit\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isLetterOrDigit(): Boolean\n\n/**\n * Returns `true` if this
character is a digit.\n *\n * A character is considered to be a digit if its [category] is
[CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic expect fun
    Char.isDigit(): Boolean\n\n/**\n * Returns `true` if this character is upper case.\n *\n * A character is considered to
be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER],\n * or it has contributory
property `Other_Uppercase` as defined by the Unicode Standard.\n *\n * @sample
samples.text.Chars.isUpperCase\n *\n@SinceKotlin("1.5")\npublic expect fun Char.isUpperCase():
Boolean\n\n/**\n * Returns `true` if this character is lower case.\n *\n * A character is considered to be a lower case
character if its [category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property
`Other_Lowercase` as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isLowerCase(): Boolean\n\n/**\n * Returns `true` if this
character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is
[CharCategory.TITLECASE_LETTER].\n *\n * @sample
samples.text.Chars.isTitleCase\n *\n@SinceKotlin("1.5")\npublic expect fun Char.isTitleCase():
Boolean\n\n/**\n * Returns `true` if this character is an ISO control character.\n *\n * A character is considered to
be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range
`\u0000..\u001F` or in the range `\u007F..\u009F`.\n *\n * @sample samples.text.Chars.isISOControl\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isISOControl(): Boolean\n\n/**\n * Determines whether a
character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n *
@sample samples.text.Chars.isWhitespace\n *\npublic expect fun Char.isWhitespace(): Boolean\n", "\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin\n\n/**\n
 * Creates a Char with the specified [code], or throws an exception if the [code] is out of
`Char.MIN_VALUE.code..Char.MAX_VALUE.code`.\n *\n * If the program that calls this function is written in a
way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is
preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may
improve program performance when the function is called routinely inside a loop.\n *\n * @sample
samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Char(code: Int): Char {\n    if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n
        throw IllegalArgumentException("Invalid Char code: $code")\n    }\n    return code.toChar()\n}\n\n/**\n
 * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR
_EXPECT")\npublic

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expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n *\n * Code of a Char is the value it
was constructed with, and the UTF-16 code unit corresponding to this Char.\n *\n * @sample
samples.text.Chars.code\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Su
ppress("DEPRECATION")\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline val Char.code: Int get() =
this.toInt()\n","/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is
_terminal_.\n *\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T):
Boolean {\n    return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic fun <T>
Sequence<T>.elementAt(index: Int): T {\n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("Sequence doesn't contain element at index $index.") }\n}\n\n/**\n * Returns an
element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this
sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (index < 0)\n    return defaultValue(index)\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val
element = iterator.next()\n        if (index == count++)\n            return element\n    }\n    return
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\npublic fun <T>
Sequence<T>.elementAtOrNull(index: Int): T? {\n    if (index < 0)\n        return null\n    val iterator = iterator()\n
var count = 0\n    while (iterator.hasNext()) {\n        val element = iterator.next()\n        if (index == count++)\n
return element\n    }\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`
if
no such element was found.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Elements.find\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Elements.find\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the first element.\n *\n * The operation is _terminal_.\n *\n *
@throws NoSuchElementException if the sequence is empty.\n *\npublic fun <T> Sequence<T>.first(): T {\n    val
iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n
return iterator.next()\n}\n\n/**\n * Returns the first element
matching the given [predicate].\n *\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The
operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n    for
(element in this) if (predicate(element)) return element\n    throw NoSuchElementException("Sequence contains no
element matching the predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function
being applied to elements of this sequence in iteration order,\n *\n * or throws [NoSuchElementException] if no non-
null value was produced.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>

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Sequence<T>.firstNotNullOf(transform: (T) -> R?): R { \n  return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the sequence was transformed to a non-null value.")\n}\n\n/**\n
 * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in
iteration order,\n * or `null` if no non-null value was produced.\n * \n * The operation is _terminal_.\n * \n *
@sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? { \n  for (element in this) { \n    val result =
transform(element)\n    if (result != null) { \n      return result\n    } \n  } \n  return null\n}\n\n/**\n
Returns the first element, or `null` if the sequence is empty.\n * \n * The operation is _terminal_.\n */\n\npublic fun
<T> Sequence<T>.firstOrNull(): T? { \n  val iterator = iterator()\n  if (!iterator.hasNext())\n    return null\n  return iterator.next()\n}\n\n/**\n
 * Returns the first element matching the given [predicate], or `null` if element was
not found.\n
 * \n * The operation is _terminal_.\n */\n\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean):
T? { \n  for (element in this) if (predicate(element)) return element\n  return null\n}\n\n/**\n
 * Returns first index
of [element], or -1 if the sequence does not contain element.\n * \n * The operation is _terminal_.\n */\n\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int { \n  var index = 0\n  for (item in
this) { \n    checkIndexOverflow(index)\n    if (element == item)\n      return index\n    index++\n  } \n  return -1\n}\n\n/**\n
 * Returns index of the first element matching the given [predicate], or -1 if the sequence does
not contain such element.\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T>
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int { \n  var index = 0\n  for (item in this) { \n
checkIndexOverflow(index)\n    if (predicate(item))\n      return index\n    index++\n  } \n  return -1\n}\n\n/**\n
 * Returns index of the last element matching the given [predicate], or -
1 if the sequence does not contain such element.\n * \n * The operation is _terminal_.\n */\n\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int { \n  var lastIndex = -1\n  var index = 0\n  for (item in
this) { \n    checkIndexOverflow(index)\n    if (predicate(item))\n      lastIndex = index\n    index++\n  } \n
return lastIndex\n}\n\n/**\n
 * Returns the last element.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic fun <T> Sequence<T>.last(): T { \n  val iterator =
iterator()\n  if (!iterator.hasNext())\n    throw NoSuchElementException("Sequence is empty.")\n  var last =
iterator.next()\n  while (iterator.hasNext())\n    last = iterator.next()\n  return last\n}\n\n/**\n
 * Returns the last element matching the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun <T> Sequence<T>.last(predicate: (T) ->
Boolean): T { \n  var last: T? = null\n  var found = false\n  for (element in this) { \n    if (predicate(element))
{\n      last = element\n      found = true\n    } \n  } \n  if (!found) throw
NoSuchElementException("Sequence contains no element matching the predicate.")\n  @Suppress("UNCHECKED_CAST")\n  return last as T\n}\n\n/**\n
 * Returns last index of [element], or -1 if the
sequence does not contain element.\n * \n * The operation is _terminal_.\n */\n\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int { \n  var lastIndex = -1\n  var
index = 0\n  for (item in this) { \n    checkIndexOverflow(index)\n
if (element == item)\n      lastIndex = index\n    index++\n  } \n  return lastIndex\n}\n\n/**\n
 * Returns the
last element, or `null` if the sequence is empty.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic fun <T> Sequence<T>.lastOrNull(): T? { \n  val iterator
= iterator()\n  if (!iterator.hasNext())\n    return null\n  var last = iterator.next()\n  while (iterator.hasNext())\n
last = iterator.next()\n  return last\n}\n\n/**\n
 * Returns the last element matching the given [predicate], or `null`
if no such element was found.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Elements.last\n */\n\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) ->
Boolean): T? { \n  var last: T? = null\n  for (element in this) { \n    if (predicate(element)) {\n      last =

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element\n    }\n    }\n    return last\n}\n\n/**\n * Returns the single
element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is
_terminal_.\n *\npublic fun <T> Sequence<T>.single(): T {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n    val single = iterator.next()\n    if
(iterator.hasNext())\n        throw IllegalArgumentException("Sequence has more than one element.")\n    return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element
in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Sequence contains
more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Sequence contains no element matching the
predicate.")\n    @SuppressWarnings("UNCHECKED_CAST")\n    return single as T\n}\n\n/**\n * Returns single element,
or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n *\npublic
fun <T> Sequence<T>.singleOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return
null\n    val single = iterator.next()\n    if (iterator.hasNext())\n        return null\n    return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a sequence
containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@throws IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Sequence<T>.drop(n: Int):
Sequence<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return when {\n        n
== 0 -> this\n        this is DropTakeSequence -> this.drop(n)\n        else -> DropSequence(this, n)\n    }\n}\n\n/**\n *
Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)
-> Boolean): Sequence<T> {\n    return DropWhileSequence(this,
predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The
operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filter\n
*\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n    return
FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Collections.Filtering.filterIndexed\n *\npublic fun <T>
Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n    // TODO: Rewrite with
generalized MapFilterIndexingSequence\n    return
TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index,
it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given
[destination].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed {
index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter
R.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n *\npublic inline fun <reified R>

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Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer
R> {\n  @Suppress("\UNCHECKED_CAST")\n  return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends
all elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n *\npublic inline fun
<reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n  for (element in
this) if (element is R) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a sequence containing
all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Collections.Filtering.filter\n *\npublic fun <T> Sequence<T>.filterNot(predicate: (T)
-> Boolean): Sequence<T> {\n  return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence
containing all elements that are not `null`.\n *\n * The operation
is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Collections.Filtering.filterNotNull\n
*\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n
@Suppress("\UNCHECKED_CAST")\n  return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all
elements that are not `null` to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n *\npublic fun <C : MutableCollection<in T>, T : Any>
Sequence<T?>.filterNotNullTo(destination: C): C {\n  for (element in this) if (element != null)
destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>>
Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C
{\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is
_terminal_.\n *\n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C :
MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in
this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a sequence
containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @throws
IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T>
{\n  require(n >= 0) { "\Requested element count $n is less than zero." }\n  return when {\n    n == 0 ->
emptySequence()\n    this is DropTakeSequence
-> this.take(n)\n    else -> TakeSequence(this, n)\n  }\n}\n\n/**\n * Returns a sequence containing first elements
satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -
> Boolean): Sequence<T> {\n  return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence sorted according to their natural sort order.\n *\n * The sort is _stable_. It means
that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_
and _stateful_.\n *\n * @sample samples.collections.Collections.Sorting.sorted\n *\npublic inline fun <T, R :
Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n  return object :
Sequence<T> {\n    override fun iterator(): Iterator<T> {\n      val sortedList = this@sorted.toMutableList()\n
sortedList.sort()\n      return sortedList.iterator()\n    }\n  }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort
order of the value returned by specified [selector] function.\n *\n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and
_stateful_.\n *\n * @sample samples.collections.Collections.Sorting.sortedBy\n *\npublic inline fun <T, R :
Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n  return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted
descending according to natural sort order of the value returned by specified [selector] function.\n *\n * The sort is
_stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation
is _intermediate_ and _stateful_.\n *\n * @sample samples.collections.Collections.Sorting.sortedDescending\n *\npublic inline fun <T, R : Comparable<R>>

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Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* The operation is `_intermediate_` and `_stateful_`.\n \*/\n\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n}\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* The operation is `_intermediate_` and `_stateful_`.\n \*/\n\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n sortedList.sortWith(comparator)\n return sortedList.iterator()\n } }\n}\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given sequence.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original sequence.\n \* \n \* The operation is `_terminal_`.\n \* \n \* @sample\n \* samples.collections.Collections.Transformations.associate\n \*/\n\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/\*\*\n \* Returns a [Map] containing the elements from the given sequence indexed by the key\n \* returned from [keySelector] function applied to each element.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original sequence.\n \* \n \* The operation is `_terminal_`.\n \* \n \* @sample\n \* samples.collections.Collections.Transformations.associateBy\n \*/\n\npublic inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original sequence.\n \* \n \* The operation is `_terminal_`.\n \* \n \* @sample\n \* samples.collections.Collections.Transformations.associateByWithValueTransform\n \*/\n\npublic inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function applied to each element of the given sequence\n \* and value is the element itself.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The operation is `_terminal_`.\n \* \n \* @sample\n \* samples.collections.Collections.Transformations.associateByTo\n \*/\n\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs,\n \* where key is provided by the [keySelector] function and\n \* and value is provided by the [valueTransform] function applied to elements of the given sequence.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* The operation is `_terminal_`.\n \* \n \* @sample\n \* samples.collections.Collections.Transformations.associateByToWithValueTransform\n \*/\n\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs\n \* provided by [transform] function applied to each element of the given sequence.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* The operation is

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_terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n *^\npublic inline fun
<T, K, V, M : MutableMap<in
K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this)
{\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are
elements from the given sequence and values are\n * produced by the [valueSelector] function applied to each
element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n *^\n@SinceKotlin("1.3")\npublic inline fun <K,
V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>()\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs for each element of the given sequence,\n * where key is the element itself
and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the
last one overwrites the former value in the map.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n *^\n@SinceKotlin("1.3")\npublic inline fun
<K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is
_terminal_.\n *^\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n
for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of
all elements.\n *\n * The operation is _terminal_.\n *^\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T>
{\n return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The
operation is _terminal_.\n *^\npublic fun <T> Sequence<T>.toList(): List<T> {\n val it = iterator()\n if
(!it.hasNext())\n return emptyList()\n val element = it.next()\n if (!it.hasNext())\n return
listOf(element)\n val dst = ArrayList<T>()\n dst.add(element)\n while (it.hasNext()) dst.add(it.next())\n
return dst\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this sequence.\n *\n * The operation
is _terminal_.\n *^\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n return
toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n *\n * The returned set preserves the
element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n *^\npublic fun <T>
Sequence<T>.toSet(): Set<T> {\n val it = iterator()\n if (!it.hasNext())\n return emptySet()\n
val element = it.next()\n if (!it.hasNext())\n return setOf(element)\n val dst = LinkedHashSet<T>()\n
dst.add(element)\n while (it.hasNext()) dst.add(it.next())\n return dst\n}\n\n/**\n * Returns a single sequence of
all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and
_stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation
is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*^\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\npublic fun <T, R>

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Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {
    return flatMapIndexed(this, transform, Iterable<R>::iterator)
}

/**
 * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element
 * and its index in the original sequence.
 * The operation is _intermediate_ and _stateless_.
 * @sample samples.collections.Collections.Transformations.flatMapIndexed
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequence")
public fun <T, R> Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {
    return flatMapIndexed(this, transform, Sequence<R>::iterator)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element
 * and its index in the original sequence, to the given [destination].
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedIterableTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element
 * and its index in the original sequence, to the given [destination].
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")
@kotlin.internal.InlineOnly
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {
    var index = 0
    for (element in this) {
        val list = transform(checkIndexOverflow(index++), element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIterableTo")
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].
 * The operation is _terminal_.
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("flatMapIterableTo")
public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Groups elements of the original sequence by the key returned by the given [keySelector] function
 * applied to each element and returns a map where each group key is associated with a list of corresponding elements.
 * The returned map preserves the entry iteration order of the keys produced from the original sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.groupBy
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("groupBy")
public inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the original sequence
 * by the key returned by the given [keySelector] function applied to the element
 * and returns a map where each group key is associated with a list of corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the original sequence.
 * The operation is _terminal_.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.jvm.JvmName("groupBy")
public inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,

```



```

List<V>> {\n  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given
[keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M :
MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination:
M, keySelector: (T) -> K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<T>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the
key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each
group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * The
operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>()
}\n    list.add(valueTransform(element))\n  }\n  return destination\n}\n\n/**\n * Creates a [Grouping] source
from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector]
function to extract a key from each element.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T,
K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n  return object :
Grouping<T, K> {\n    override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n    override fun
keyOf(element: T): K = keySelector(element)\n  }\n}\n\n/**\n * Returns a sequence containing the results of
applying the given [transform] function\n * to each element in the original sequence.\n * \n * The operation is
_intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic
fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n  return TransformingSequence(this,
transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to
each element and its index in the original sequence.\n * \n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n * \n * The
operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index:
Int, T) -> R): Sequence<R> {\n  return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a
sequence containing only the non-null results of applying the given [transform] function\n * to each element and its
index in the original sequence.\n * \n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n * \n * The operation is
_intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform:
(index: Int, T) -> R?): Sequence<R> {\n  return TransformingIndexedSequence(this,
transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the
original sequence\n * and appends only the non-null results to the given [destination].\n * \n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n * \n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in
R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n  forEachIndexed
{ index, element -> transform(index, element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the
results to
the given [destination].\n * \n * @param [transform] function that takes the index of an element and the element itself\n
* and returns the result of the transform applied to the element.\n * \n * The operation is _terminal_.\n */\npublic
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int,
T) -> R): C {\n  var index = 0\n  for (item in this)\n

```

`destination.add(transform(checkIndexOverflow(index++), item))` return destination  
 Returns a sequence containing only the non-null results of applying the given [transform] function to each element in the original sequence.  
 The operation is `_intermediate_` and `_stateless_`.  
 @sample  
`samples.collections.Collections.Transformations.mapNotNull`  
`public fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {`  
`return TransformingSequence(this, transform).filterNotNull()`  
 Applies the given [transform] function to each element in the original sequence and appends only the non-null results to the given [destination].  
 The operation is `_terminal_`.  
 public inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {  
 for (element in this) {  
 transform(element)?.let { destination.add(it) }  
 }  
 return destination  
 }  
 Applies the given [transform] function to each element of the original sequence and appends the results to the given [destination].  
 The operation is `_terminal_`.  
 public inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {  
 for (item in this) {  
 destination.add(transform(item))  
 }  
 return destination  
 }  
 Returns a sequence that wraps each element of the original sequence into an [IndexedValue] containing the index of that element and the element itself.  
 The operation is `_intermediate_` and `_stateless_`.  
 public fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {  
 return IndexingSequence(this)  
 }  
 Returns a sequence containing only distinct elements from the given sequence.  
 Among equal elements of the given sequence, only the first one will be present in the resulting sequence.  
 The elements in the resulting sequence are in the same order as they were in the source sequence.  
 The operation is `_intermediate_` and `_stateful_`.  
 @sample  
`samples.collections.Collections.Transformations.distinctAndDistinctBy`  
`public fun <T> Sequence<T>.distinct(): Sequence<T> {`  
`return this.distinctBy { it }`  
 Returns a sequence containing only elements from the given sequence having distinct keys returned by the given [selector] function.  
 Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.  
 The elements in the resulting sequence are in the same order as they were in the source sequence.  
 The operation is `_intermediate_` and `_stateful_`.  
 @sample  
`samples.collections.Collections.Transformations.distinctAndDistinctBy`  
`public fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {`  
`return DistinctSequence(this, selector)`  
 Returns a new [MutableSet] containing all distinct elements from the given sequence.  
 The returned set preserves the element iteration order of the original sequence.  
 The operation is `_terminal_`.  
 public fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {  
 val set = LinkedHashSet<T>()  
 for (item in this) {  
 set.add(item)  
 }  
 return set  
 }  
 Returns `true` if all elements match the given [predicate].  
 Note that if the sequence contains no elements, the function returns `true` because there are no elements in it that `_do not_` match the predicate.  
 See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth)  
 article.  
 The operation is `_terminal_`.  
 @sample  
`samples.collections.Collections.Aggregates.all`  
`public inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {`  
`for (element in this) {`  
`if (!predicate(element)) return false`  
`return true`  
 }  
 Returns `true` if sequence has at least one element.  
 The operation is `_terminal_`.  
 @sample  
`samples.collections.Collections.Aggregates.any`  
`public fun <T> Sequence<T>.any(): Boolean {`  
`return iterator().hasNext()`  
 Returns `true` if at least one element matches the given [predicate].  
 The operation is `_terminal_`.  
 @sample  
`samples.collections.Collections.Aggregates.anyWithPredicate`  
`public inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {`  
`for (element in this) {`  
`if (predicate(element)) return true`  
`return false`  
 }  
 Returns the number of elements in this sequence.  
 The operation is `_terminal_`.  
 public fun <T> Sequence<T>.count(): Int {  
 var count = 0  
 for (element in this) {  
 checkCountOverflow(++count)  
 }  
 return count  
 }  
 Returns the number of elements matching the given [predicate].  
 The operation is `_terminal_`.  
 public inline fun <T> Sequence<T>.count(predicate:

```

(T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element))
        checkCountOverflow(++count)
    return count
}

/**
 * Accumulates value starting with [initial] value and
 * applying [operation] from left to right
 * to current accumulator value and each element.
 * Returns the
 * specified [initial] value if the sequence is empty.
 * @param [operation] function that takes current
 * accumulator value and an element, and calculates the next accumulator value.
 * The operation is _terminal_.
 */
public inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {
    var accumulator =
        initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from left to right
 * to current accumulator
 * value and each element with its index in the original sequence.
 * Returns the specified [initial] value if the
 * sequence is empty.
 * @param [operation] function that takes the index of an element, current accumulator
 * value
 * and the element itself, and calculates the next accumulator value.
 * The operation is _terminal_.
 */
public inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator =
        operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}

/**
 * Performs the
 * given [action] on each element.
 * The operation is _terminal_.
 */
public inline fun <T>
Sequence<T>.forEach(action:
(T) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each
 * element, providing sequential index with the element.
 * @param [action] function that takes the index of an
 * element and the element itself
 * and performs the action on the element.
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
    var index = 0
    for (item in this) action(checkIndexOverflow(index++), item)
}

/**
 * Returns the largest element.
 * If
 * any of elements is `NaN` returns `NaN`.
 * The operation is _terminal_.
 * @throws
 * NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun Sequence<Double>.max(): Double {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
        NoSuchElementException()
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        max = maxOf(max, e)
    }
    return
        max
}

/**
 * Returns the largest element.
 * If
 * any of elements is `NaN` returns `NaN`.
 * The
 * operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun Sequence<Float>.max(): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
        NoSuchElementException()
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e =
            iterator.next()
        max = maxOf(max, e)
    }
    return max
}

/**
 * Returns the largest element.
 * The
 * operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public fun <T : Comparable<T>> Sequence<T>.max():
T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
        NoSuchElementException()
    var max =
        iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function.
 * The
 * operation is _terminal_.
 * @throws NoSuchElementException if the sequence is empty.
 * @sample
 * collections.Collections.Aggregates.maxBy
 */
@SinceKotlin("1.7")
@kotlin.jvm.JvmName("maxByOrThrow")
@Suppress("CONFLICTING_OVERLOADS")
public inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T {
    val iterator
    = iterator()
    if (!iterator.hasNext()) throw
        NoSuchElementException()
    var maxElem = iterator.next()
    if
    (!iterator.hasNext()) return maxElem
    var maxValue = selector(maxElem)
    do {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return maxElem
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if
 */

```

```

there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n *\n @SinceKotlin("1.4")\n public inline fun <T, R :
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n     val iterator = iterator()\n     if
(!iterator.hasNext()) return null\n     var maxElem = iterator.next()\n     if (!iterator.hasNext()) return maxElem\n     var
maxValue = selector(maxElem)\n     do {\n         val e = iterator.next()\n         val v = selector(e)\n         if (maxValue <
v) {\n             maxElem = e\n             maxValue = v\n         }\n     } while (iterator.hasNext())\n     return
maxElem\n }\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied
to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n *\n * The operation is _terminal_.\n *\n * @throws NoSuchElementException if the sequence is
empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Double): Double {\n     val iterator = iterator()\n     if (!iterator.hasNext()) throw NoSuchElementException()\n     var
maxValue = selector(iterator.next())\n     while (iterator.hasNext()) {\n         val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n     }\n     return maxValue\n }\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation
is _terminal_.\n *\n * @throws NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.maxOf(selector: (T) ->
Float): Float {\n     val iterator = iterator()\n     if (!iterator.hasNext()) throw NoSuchElementException()\n     var
maxValue = selector(iterator.next())\n     while (iterator.hasNext()) {\n         val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n     }\n     return maxValue\n }\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * The operation is
_terminal_.\n *\n * @throws NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public
inline fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R {\n     val iterator = iterator()\n     if
(!iterator.hasNext()) throw NoSuchElementException()\n     var maxValue = selector(iterator.next())\n     while
(iterator.hasNext()) {\n         val v = selector(iterator.next())\n         if (maxValue < v) {\n             maxValue = v\n
        }\n     }\n     return maxValue\n }\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.maxOfOrNull(selector:
(T) -> Double): Double? {\n     val iterator = iterator()\n     if (!iterator.hasNext()) return
null\n     var maxValue = selector(iterator.next())\n     while (iterator.hasNext()) {\n         val v =
selector(iterator.next())\n         maxValue = maxOf(maxValue, v)\n     }\n     return maxValue\n }\n\n/**\n * Returns
the largest value among all values produced by [selector] function\n * applied to each element in the sequence or
`null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n *\n * The operation is _terminal_.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.maxOfOrNull(selector:
(T) -> Float): Float? {\n     val iterator = iterator()\n     if (!iterator.hasNext()) return null\n     var
maxValue = selector(iterator.next())\n     while (iterator.hasNext()) {\n         val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n     }\n     return maxValue\n }\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the
sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n

```

```

*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return
null\n    var maxValue = selector(iterator.next())\n    while (iterator.hasNext()) {\n        val v =
selector(iterator.next())\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation
is _terminal_.\n
*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n    val iterator = iterator()\n    if
(iterator.hasNext()) throw NoSuchElementException()\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null`
if there are no elements.\n * \n * The operation is _terminal_.\n
*^@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)@OverloadResolution
ByLambdaReturnType@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxValue = selector(iterator.next())\n    while
(iterator.hasNext()) {\n        val v = selector(iterator.next())\n        if (comparator.compare(maxValue, v) < 0) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*^@SinceKotlin("1.4")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n    val iterator = iterator()\n
if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n
*^@SinceKotlin("1.4")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n    val iterator = iterator()\n
if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        max = maxOf(max, e)\n    }\n    return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * The operation is _terminal_.\n
*^@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator].\n * \n * The operation is
_terminal_.\n * \n * @throws NoSuchElementException if the sequence
is empty.\n
*^@SinceKotlin("1.7")@kotlin.jvm.JvmName("maxWithOrThrow")@Suppress("CONFLICTING_OVERLOADS")\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T {\n
    val iterator = iterator()\n    if (!iterator.hasNext()) throw NoSuchElementException()\n    var max = iterator.next()\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n
    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]
or `null` if there are no elements.\n * \n * The operation is _terminal_.\n
*^@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e =
iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n

```

```

* Returns the smallest element.\n * \n * If any of elements is `NaN` returns `NaN`.\n * \n * The operation is
_terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.7")\n @kotlin.jvm.JvmName("minOrThrow")\n @Suppress("CONFLICTING_OVERLOA
DS")\n public fun Sequence<Double>.min(): Double {\n     val iterator = iterator()\n     if (!iterator.hasNext()) throw
NoSuchElementException()\n     var min = iterator.next()\n     while (iterator.hasNext()) {\n         val e =
iterator.next()\n         min = minOf(min, e)\n     }\n     return min\n }\n\n**\n * Returns the smallest element.\n * \n * If
any of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.7")\n @kotlin.jvm.JvmName("minOrThrow")\n @Suppress("CONFLICTING_OVERLOA
DS")\n public fun Sequence<Float>.min(): Float {\n     val iterator = iterator()\n     if (!iterator.hasNext()) throw
NoSuchElementException()\n
     var min = iterator.next()\n     while (iterator.hasNext()) {\n         val e = iterator.next()\n         min = minOf(min, e)\n
     }\n     return min\n }\n\n**\n * Returns the smallest element.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.7")\n @kotlin.jvm.JvmName("minOrThrow")\n @Suppress("CONFLICTING_OVERLOA
DS")\n public fun <T : Comparable<T>> Sequence<T>.min(): T {\n     val iterator = iterator()\n     if
(!iterator.hasNext()) throw NoSuchElementException()\n     var min = iterator.next()\n     while (iterator.hasNext())
{\n         val e = iterator.next()\n         if (min > e) min = e\n     }\n     return min\n }\n\n**\n * Returns the first element
yielding the smallest value of the given function.\n * \n * The operation is _terminal_.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n @SinceKotlin("1.7")\n @kotlin.jvm.JvmName("minByOrThrow")\n @Suppress("CONFLICTING_OVERLO
ADS")\n public
inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T {\n     val iterator = iterator()\n     if
(!iterator.hasNext()) throw NoSuchElementException()\n     var minElem = iterator.next()\n     if (!iterator.hasNext())
return minElem\n     var minValue = selector(minElem)\n     do {\n         val e = iterator.next()\n         val v =
selector(e)\n         if (minValue > v) {\n             minElem = e\n             minValue = v\n         }\n     } while
(iterator.hasNext())\n     return minElem\n }\n\n**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n @SinceKotlin("1.4")\n public inline fun <T, R :
Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {\n     val iterator = iterator()\n     if
(!iterator.hasNext())
return null\n     var minElem = iterator.next()\n     if (!iterator.hasNext()) return minElem\n     var minValue =
selector(minElem)\n     do {\n         val e = iterator.next()\n         val v = selector(e)\n         if (minValue > v) {\n
minElem = e\n             minValue = v\n         }\n     } while (iterator.hasNext())\n     return minElem\n }\n\n**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n *
The operation is _terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.minOf(selector: (T) ->
Double): Double {\n     val iterator = iterator()\n     if (!iterator.hasNext()) throw NoSuchElementException()\n
     var minValue = selector(iterator.next())\n     while (iterator.hasNext()) {\n         val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n     }\n     return minValue\n }\n\n**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n * \n *
@throws NoSuchElementException if the sequence is empty.\n
*\n @SinceKotlin("1.4")\n @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n @OverloadResolution
ByLambdaReturnType\n @kotlin.internal.InlineOnly\n public inline fun <T> Sequence<T>.minOf(selector: (T) ->

```

```

Float): Float {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException()
    var
    minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all
values produced by [selector] function
* applied to each element in the sequence.
* The operation is
*_terminal_
* @throws NoSuchElementException if the sequence is empty.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Sequence<T>.minOf(selector: (T) -> R): R {
    val iterator = iterator()
    if (!iterator.hasNext()) throw
    NoSuchElementException()
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v
        = selector(iterator.next())
        if (minValue > v) {
            minValue = v
        }
    }
    return
    minValue
}

/** Returns the smallest value among all values produced by [selector] function
* applied to
each element in the sequence or `null` if there
are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
* The operation is
*_terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var minValue =
    selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue =
        minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced
by [selector] function
* applied to each element in the sequence or `null` if there are no elements.
* If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.
* The operation is
*_terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public
inline fun <T> Sequence<T>.minOrNull(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if
    (!iterator.hasNext()) return null
    var minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        minValue = minOf(minValue, v)
    }
    return minValue
}

/** Returns the smallest value among all values produced by [selector] function
* applied to each element in the
sequence or `null` if there are no elements.
* The operation is
*_terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R : Comparable<R>>
Sequence<T>.minOrNull(selector: (T) -> R): R? {
    val iterator = iterator()
    if (!iterator.hasNext()) return
    null
    var
    minValue = selector(iterator.next())
    while (iterator.hasNext()) {
        val v = selector(iterator.next())
        if
        (minValue > v) {
            minValue = v
        }
    }
    return minValue
}

/** Returns the smallest value
according to the provided [comparator]
* among all values produced by [selector] function applied to each
element in the sequence.
* @throws NoSuchElementException if the sequence is empty.
* The
operation is
*_terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
    val iterator = iterator()
    if
    (!iterator.hasNext()) throw NoSuchElementException()
    var minValue = selector(iterator.next())
    while
    (iterator.hasNext()) {
        val v = selector(iterator.next())
        if (comparator.compare(minValue,
        v) > 0) {
            minValue = v
        }
    }
    return minValue
}

/** Returns the smallest value
according to the provided [comparator]
* among all values produced by [selector] function applied to each
element in the sequence or `null` if there are no elements.
* The operation is
*_terminal_
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
    val iterator =

```

```

iterator()\n  if (!iterator.hasNext()) return null\n  var minValue = selector(iterator.next())\n  while
(iterator.hasNext()) {\n    val v = selector(iterator.next())\n    if (comparator.compare(minValue, v) > 0) {\n
    minValue = v\n    }\n  }\n  return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n * \n * If any
of elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun
Sequence<Double>.minOrNull(): Double? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n
var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e = iterator.next()\n    min = minOf(min, e)\n
}\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n * \n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun
Sequence<Float>.minOrNull(): Float? {\n  val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var
min = iterator.next()\n  while (iterator.hasNext()) {\n    val e = iterator.next()\n    min = minOf(min, e)\n  }\n
return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * The operation is
_terminal_.\n */\n@SinceKotlin("1.4")\npublic
fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n  val iterator = iterator()\n  if (!iterator.hasNext())
return null\n  var min = iterator.next()\n  while (iterator.hasNext()) {\n    val e = iterator.next()\n    if (min >
e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element having the smallest value according to the
provided [comparator].\n * \n * The operation is _terminal_.\n * \n * @throws NoSuchElementException if the
sequence is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVER
LOADS")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T {\n  val iterator =
iterator()\n  if (!iterator.hasNext()) throw NoSuchElementException\n  var min = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return
min\n}\n\n/**\n * Returns the first element having the smallest value according
to the provided [comparator] or `null` if there are no elements.\n * \n * The operation is _terminal_.\n */\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n  if (!iterator.hasNext()) return null\n  var min = iterator.next()\n  while
(iterator.hasNext()) {\n    val e = iterator.next()\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n * \n * The operation is _terminal_.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n
return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The
operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n
for (element
in this) if (predicate(element)) return false\n  return true\n}\n\n/**\n * Returns a sequence which performs the
given [action] on each element of the original sequence as they pass through it.\n * \n * The operation is
_intermediate_ and _stateless_.\n */\n@SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) ->
Unit): Sequence<T> {\n  return map {\n    action(it)\n    it\n  }\n}\n\n/**\n * Returns a sequence which
performs the given [action] on each element of the original sequence as they pass through it.\n * \n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n * \n *
The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {\n  return mapIndexed { index,
element ->\n    action(index, element)\n    element\n  }\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * The operation is
_terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S>
Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n  val iterator = this.iterator()\n  if (!iterator.hasNext())
throw UnsupportedOperationException("Empty sequence can't be reduced.")\n  var accumulator: S =

```



```

iterator.next()\n while (iterator.hasNext()) {\n     accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and\n * applying [operation] from left to right\n * to current accumulator value and each element with its index in the\n * original sequence.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an\n * expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\n\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var index = 1\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator =\n        operation(checkIndexOverflow(index++),\n        accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first\n * element and applying [operation] from left to right\n * to current accumulator value and each element with its index\n * in the original sequence.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that\n * takes the index of an element, current accumulator value and the element itself,\n * and calculates the next\n * accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) return null\n    var index = 1\n    var accumulator: S = iterator.next()\n    while\n    (iterator.hasNext()) {\n        accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n * from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is\n * empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates\n * the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>\nSequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if\n    (!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Returns a sequence\n * containing successive accumulation values generated by applying [operation]\n * from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that\n * `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in\n * resulting sequence.\n * \n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be\n * passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that\n * takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is\n * _intermediate_ and _stateless_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.runningFold\n */\n\n@SinceKotlin("1.4")\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R):\nSequence<R> {\n    return sequence {\n        yield(initial)\n        var accumulator = initial\n        for (element in\n        this@runningFold) {\n            accumulator = operation(accumulator,\n            element)\n            yield(accumulator)\n        }\n    }\n}\n\n/**\n * Returns a sequence containing successive\n * accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original\n * sequence and current accumulator value that starts with [initial] value.\n * \n * Note that\n * `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation]\n * function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an\n * element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * The\n * operation is _intermediate_ and _stateless_.\n * \n * @sample

```



applied to each element in the sequence.  
`fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {  
 var sum: Int = 0  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {  
 var sum: Double = 0.0  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {  
 var sum: Double = 0.toDouble()  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {  
 var sum: Int = 0.toInt()  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {  
 var sum: Long = 0.toLong()  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {  
 var sum: UInt = 0.toUInt()  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns the sum of all values produced by [selector] function applied to each element in the sequence.  
The operation is `_terminal_`.  
`fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {  
 var sum: ULong = 0.toULong()  
 for (element in this) {  
 sum += selector(element)  
 }  
 return sum  
}`  
Returns an original collection containing all the non-`null` elements, throwing an `IllegalArgumentException` if there are any `null` elements.  
The operation is `_intermediate_` and `_stateless_`.  
`fun <T : Any> Sequence<T>.requireNonNulls(): Sequence<T> {  
 return map { it ?: throw IllegalArgumentException("null element found in $this.") }  
}`  
Splits this sequence into a sequence of lists each not exceeding the given [size].  
The last list in the resulting sequence may have fewer elements than the given [size].  
@param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.  
The operation is `_intermediate_` and `_stateful_`.  
@sample  
`collections.Collections.Transformations.chunked`  
`fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {  
 return windowed(size, size, partialWindows = true)  
}`  
Splits this sequence into several lists each not exceeding the given [size] and applies the given [transform] function to an each.  
@return sequence of results of the [transform] applied to an each list.  
Note that the list passed to the [transform] function is ephemeral and is valid only inside

that function.

You should not store it or allow it to escape in some way, unless you made a snapshot of it.

The last list may have fewer elements than the given [size].

@param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.

\* The operation is `_intermediate_ and _stateful_`.

@sample samples.text.Strings.chunkedTransform

```
*\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n * The operation is _intermediate_ and _stateless_._intermediate_ and _stateful_._intermediate_ and _stateful_._intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence._intermediate_ and _stateless_._terminal_._intermediate_ and _stateless_.

```

the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.

```

    * The operation is _intermediate_ and _stateless_.
    * Sequence<T>.plus(elements: Array<out T>): Sequence<T> {
    * return this.plus(elements.asList())}
    * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.
    * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.
    * The operation is _intermediate_ and _stateless_.
    * Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {
    * return sequenceOf(this, elements.asSequence()).flatten()
    * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.
    * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.
    * The operation is _intermediate_ and _stateless_.
    * Sequence<T>.plusElement(element: T): Sequence<T> {
    * return plus(element)}
    * Returns a sequence of snapshots of the window of the given [size] sliding along this sequence with the given [step], where each snapshot is a list.
    * Several last lists may have fewer elements than the given [size].
    * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.
    * @param size the number of elements to take in each window
    * @param step the number of elements to move the window forward by on each step, by default 1
    * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
    * @sample samples.collections.Sequences.Transformations.takeWindows
    * Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {
    * return windowedSequence(size, step, partialWindows, reuseBuffer = false)}
    * Returns a sequence of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this sequence with the given [step].
    * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.
    * You should not store it or allow it to escape in some way, unless you made a snapshot of it.
    * Several last lists may have fewer elements than the given [size].
    * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.
    * @param size the number of elements to take in each window
    * @param step the number of elements to move the window forward by on each step, by default 1
    * @param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
    * @sample samples.collections.Sequences.Transformations.averageWindows
    * R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
    * Sequence<R> {
    * return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)}
    * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.
    * The resulting sequence ends as soon as the shortest input sequence ends.
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Sequences.Transformations.zip
    * Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {
    * return MergingSequence(this, other) { t1, t2 -> t1 to t2 }
    * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index using the provided [transform] function applied to each pair of elements.
    * The resulting sequence ends as soon as the shortest input sequence ends.
    * The operation is _intermediate_ and _stateless_.
    * @sample samples.collections.Sequences.Transformations.zipWithTransform
  
```

```

Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n  return
MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in
this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n * \n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n *\n@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n  return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two
adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two
elements.\n * \n *
The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *\n@SinceKotlin("1.2")\npublic
fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n  return sequence result@
{\n    val iterator = iterator()\n    if (!iterator.hasNext()) return @result\n    var current = iterator.next()\n
while (iterator.hasNext()) {\n    val next = iterator.next()\n    yield(transform(current, next))\n
current = next\n    }\n  }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n
*\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix:
CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T)
-> CharSequence)? = null): A {\n  buffer.append(prefix)\n  var count = 0\n  for (element in this) {\n    if
(++count > 1) buffer.append(separator)\n    if (limit < 0 || count <= limit) {\n
buffer.appendElement(element, transform)\n    } else break\n  }\n  if (limit >= 0 && count > limit)
buffer.append(truncated)\n  buffer.append(postfix)\n  return buffer\n}\n\n/**\n * Creates a string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string
(which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun <T>
Sequence<T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n  return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n *\npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n  return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n  return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is
_terminal_.\n * \n * @kotlin.jvm.JvmName("averageOfByte")\npublic
fun Sequence<Byte>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this)
{\n    sum += element\n    checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum
/ count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Sequence<Short>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Sequence<Int>.average(): Double {\n  var sum: Double
= 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n
}

```

```

    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Sequence<Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Sequence<Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Sequence<Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        checkCountOverflow(++count)
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Sequence<Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Sequence<Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Sequence<Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Sequence<Long>.sum(): Long {
    var sum: Long = 0L
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Sequence<Float>.sum(): Float {
    var sum: Float = 0.0f
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the sequence.
 * The operation is _terminal_.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")
package kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns a set containing all elements of the original set except the given [element].
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(element: T): Set<T> {
    val result = LinkedHashSet<T>(mapCapacity(size))
    var removed = false
    return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {
    val result = LinkedHashSet<T>(this)
    result.removeAll(elements)
    return result
}

/**
 * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.
 * The returned set preserves the element iteration order of the original set.
 */
public operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {
    val other = elements.convertToListIfNotCollection()
    if (other.isEmpty()) return this.toSet()
    if (other is Set) return this.filterNotTo(LinkedHashSet<T>()) { it in other }
    val result = LinkedHashSet<T>(this)
    result.removeAll(other)
    return result
}

```

all elements of the original set except the elements contained in the given [elements] sequence.

`Set<T>.minus(elements: Sequence<T>): Set<T> {`  
 `val result = LinkedHashSet<T>(this)`  
 `result.removeAll(elements)`  
 `return result`  
`}`  
 Returns a set containing all elements of the original set except the given [element].

`Set<T>.minusElement(element: T): Set<T> {`  
 `return`  
 `minus(element)`  
`}`  
 Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.

`Set<T>.plus(element: T): Set<T> {`  
 `val result =`  
 `LinkedHashSet<T>(mapCapacity(size`  
 `+ 1))`  
 `result.addAll(this)`  
 `result.add(element)`  
 `return result`  
`}`  
 Returns a set containing all elements of the original set and the given [elements] array, which aren't already in this set.

`Set<T>.plus(elements: Array<out T>): Set<T> {`  
 `val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))`  
 `result.addAll(this)`  
 `result.addAll(elements)`  
 `return result`  
`}`  
 Returns a set containing all elements of the original set and the given [elements] collection, which aren't already in this set.

`Set<T>.plus(elements: Iterable<T>): Set<T> {`  
 `val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let {`  
 `this.size + it } ?: this.size * 2))`  
 `result.addAll(this)`  
 `result.addAll(elements)`  
 `return result`  
`}`  
 Returns a set containing all elements of the original set and the given [elements] sequence, which aren't already in this set.

`Set<T>.plus(elements: Sequence<T>): Set<T> {`  
 `val result =`  
 `LinkedHashSet<T>(mapCapacity(this.size * 2))`  
 `result.addAll(this)`  
 `result.addAll(elements)`  
 `return`  
 `result`  
`}`  
 Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.

`Set<T>.plusElement(element: T): Set<T> {`  
 `return`  
 `plus(element)`  
`}`  
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`package`  
`kotlin.text`  
`import`  
`kotlin.random.*`  
`expect fun`  
`CharSequence.elementAt(index: Int): Char`  
 `Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.`  
`CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char`  
 `Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.`  
`CharSequence.elementAtOrNull(index: Int): Char?`  
 `Returns the first character matching the given [predicate], or `null` if no such character was found.`  
`CharSequence.find(predicate: (Char) -> Boolean): Char?`  
 `Returns the last character matching the given [predicate], or `null` if no such character was found.`  
`CharSequence.findLast(predicate: (Char) -> Boolean): Char?`



```

return
lastOrNull(predicate)\n}\n\n/**\n * Returns the first character.\n * \n * @throws NoSuchElementException if the
char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n    if (isEmpty())\n        throw
NoSuchElementException("Char sequence is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first character
matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic
inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n    for (element in this) if (predicate(element))
return element\n    throw NoSuchElementException("Char sequence contains no character matching the
predicate.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to
characters of this char sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value
was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n    return
firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the char sequence was
transformed to a non-null value.")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function
being applied to characters of this char sequence in iteration order,\n * or `null` if no non-null value was produced.\n
*/\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any>
CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n    for (element in this) {\n        val result =
transform(element)\n        if (result != null) {\n            return result\n        }\n    }\n    return null\n}\n\n/**\n *
Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull():
Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given
[predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -
> Boolean): Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index:
Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of
this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrElse\n */\npublic fun
CharSequence.getOrElse(index: Int): Char? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the
char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char)
-> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence
does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean):
Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence
is empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.last(): Char {\n    if
(isEmpty())\n        throw NoSuchElementException("Char
sequence is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given
[predicate].\n * \n * @throws NoSuchElementException if no such character is found.\n * \n * @sample
samples.text.Strings.last\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n    for
(index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Char sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n
*/\npublic fun CharSequence.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample
samples.text.Strings.last\n */\npublic inline fun CharSequence.lastOrNull(predicate:

```



characters that satisfy the given [predicate].\n \* \n \*

```
@sample samples.text.Strings.drop\n * \n public inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return subSequence(0, index + 1)\n return ""\n}\n\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n * \n public inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return substring(0, index + 1)\n return ""\n}\n\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n * \n public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return subSequence(index, length)\n return ""\n}\n\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n * \n public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n for (index in this.indices)\n if (!predicate(this[index]))\n return substring(index)\n return ""\n}\n\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n * \n public inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n return filterTo(StringBuilder(), predicate)\n}\n\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n * \n public inline fun String.filter(predicate: (Char) -> Boolean): String {\n return filterTo(StringBuilder(), predicate).toString()\n}\n\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n * \n public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n return filterIndexedTo(StringBuilder(), predicate)\n}\n\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n * \n public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n * \n public inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.append(element)\n }\n return destination\n}\n\n * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n * \n public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n return filterNotTo(StringBuilder(), predicate)\n}\n\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n * \n public inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n * Appends all characters not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n * \n public inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this)\n if (!predicate(element)) destination.append(element)\n return destination\n}\n\n * Appends all characters matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n * \n public inline fun <C : Appendable> CharSequence.filterTo(destination:
```



```

\n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associate
*\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n    val
capacity = mapCapacity(length).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the
key\n * returned from [keySelector] function applied to each character.\n * \n * If
any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateBy\n *\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K):
Map<K, Char> {\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n    return
associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char
sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n *
@sample samples.text.Strings.associateByWithValueTransform\n *\npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) ->
K, valueTransform: (Char) -> V): Map<K, V> {\n    val capacity = mapCapacity(length).coerceAtLeast(16)\n
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function
applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two
characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateByTo\n *\npublic inline fun <K, M : MutableMap<in K, in Char>>
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in this) {\n
destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and
value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any
two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.text.Strings.associateByToWithValueTransform\n *\npublic inline fun <K, V, M :
MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n    for (element in this) {\n        destination.put(keySelector(element),
valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateTo\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform:
(Char) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return
destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n
* produced by the [valueSelector] function applied to each character.\n * \n * If any two characters are equal, the
last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char
sequence.\n * \n * @sample samples.text.Strings.associateWith\n *\n@SinceKotlin("1.3")\npublic inline fun <V>
CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n    val result = LinkedHashMap<Char,
V>(mapCapacity(length).coerceAtMost(128)).coerceAtLeast(16)\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
character of the given char sequence,\n * where key is the character itself and value is provided
by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites
the former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n
*\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char, in V>>
CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n    for (element in this) {\n

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destination.put(element, valueSelector(element))\n } \n return destination\n}\n\n/**\n * Appends all characters to
the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet():
HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n *
Returns a [List] containing all characters.\n */\npublic
fun CharSequence.toList(): List<Char> {\n return when (length) {\n 0 -> emptyList()\n 1 ->
listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a new [MutableList] filled with all
characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n return
toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set
preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet():
Set<Char> {\n return when (length) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else ->
toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n }\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each character of original char
sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic
inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return
flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each character\n * and its index in the original char sequence, to the given
[destination].\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c
inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index:
Int, Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each character of original char sequence, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C,
transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups characters of the original char sequence by
the key returned by the given [keySelector]
function\n * applied to each character and returns a map where each group key is associated with a list of
corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from
the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V):
Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,

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valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given
[keySelector] function\n * applied to each character and puts to the [destination] map each group key associated
with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K,
MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n    for (element in
this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<Char>() }\n
list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function
applied to
each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to
the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n *
\n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n
*/\n\n@SinceKotlin("1.1")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) ->
K): Grouping<Char, K> {\n    return object : Grouping<Char, K> {\n        override fun sourceIterator():
Iterator<Char> = this@groupingBy.iterator()\n        override fun keyOf(element: Char): K = keySelector(element)\n
    }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character
in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R>
CharSequence.map(transform: (Char) -> R): List<R> {\n    return mapTo(ArrayList<R>(length),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
character and its index in the original char sequence.\n * @param [transform] function that takes the index of a
character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic
inline
fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each character and its index in the original char sequence.\n *
@param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n */\npublic inline fun <R : Any>
CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
character and its index in the original char sequence\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and
returns the result of the transform applied to the character.\n
*/\n\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination:
C, transform: (index: Int, Char) -> R?): C {\n    forEachIndexed { index, element -> transform(index, element)?.let {
destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each character
and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of a character and the character itself\n * and returns the result of the
transform applied to the character.\n */\n\npublic inline fun <R, C : MutableCollection<in R>>
CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n    var index = 0\n    for (item
in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Returns a list
containing only the non-null results of applying the given [transform] function\n * to each character in

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the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n
*\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n  return
mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character
in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline
fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) ->
R?): C {\n  forEach { element -> transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results
to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n  for (item in this)\n  destination.add(transform(item))\n
  return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n
* into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun
CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns `true` if all characters match the given [predicate].\n * \n * Note that if the char sequence contains no
characters, the function returns `true`\n * because there are no characters in it that _do not_ match the predicate.\n
* See a more detailed explanation of this logic concept in ["Vacuous
truth"](https://en.wikipedia.org/wiki/Vacuous_truth) article.\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) ->
Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if char sequence has at least one
character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any():
Boolean {\n  return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun
CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the length of this char sequence.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n  return length\n}\n\n/**\n *
Returns the number of characters matching the given [predicate].\n */\npublic inline fun
CharSequence.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current
accumulator value and each character.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n
* \n * @param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n
var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n *
Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes
the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator
value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation:
(index: Int, acc: R, Char) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this)
accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from right to left\n * to each character and current accumulator
value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation]
function that takes a character and current accumulator value, and calculates the next accumulator value.\n
*/\n\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left\n * to each character with its index in the

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original char sequence and current accumulator value.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n *
and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n    var index =
lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each
character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n    for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the
character.\n * @param [action] function that takes the index of a character and the character itself\n
* and performs the action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index:
Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(index++, item)\n}\n\n/**\n * Returns the
largest character.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
CharSequence.max(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var max =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return
max\n}\n\n/**\n * Returns the first character yielding the largest value of the given function.\n * \n * @throws
NoSuchElementException if the char sequence is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n
*/\n\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun
<R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0)
return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v
= selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return
maxElem\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there
are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*/\n\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) ->
R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by
[selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char
sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var maxValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each character in the char
sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are
no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator:
Comparator<in R>, selector: (Char)
-> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue
= v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or
`null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\npublic fun CharSequence.maxOrNull(): Char? {\n if (isEmpty()) return null\n var
max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return
max\n}\n\n/**\n * Returns the first character having the largest value according to the provided [comparator].\n * \n
*\n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char {\n if (isEmpty())

```

```
throw NoSuchElementException()\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first character having the largest value according to the provided
```

```
[comparator] or `null` if there are no characters.\n */\n@SinceKotlin("1.4")\npublic fun
```

```
CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the smallest character.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
```

```
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharSequence.min(): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function.\n * \n * @throws
```

```
NoSuchElementException if the char sequence is empty.\n * \n * @sample
```

```
samples.collections.Collections.Aggregates.minBy\n
```

```
*/\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char {\n    if (isEmpty()) throw NoSuchElementException()\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or
```

```
`null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
```

```
*/\n@SinceKotlin("1.4")\npublic inline fun <R : Comparable<R>> CharSequence.minByOrNull(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
```

```
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) -> Double): Double {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
```

```
        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
```

```
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws
```

```
NoSuchElementException if the char sequence is empty.\n
```

```
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
```

```
CharSequence.minOf(selector: (Char) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
```

```

    minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.minOfOrNull(selector: (Char) -> Double): Double? {\n    if (isEmpty()) return null\n    var minValue
= selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n
    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n
* applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex)
{\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n
* Returns the smallest value among all values produced by [selector] function\n * applied to each character in the
char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =
selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n    if
(isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n        minValue = v\n        }\n    }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each character in the char sequence or `null` if there are no
characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for
(i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n
minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest character or `null` if there are no
characters.\n * \n *\n@SinceKotlin("1.4")\npublic fun CharSequence.minOrNull(): Char? {\n    if (isEmpty()) return
null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n
return min\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator].\n
*\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow")\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char {\n    if (isEmpty()) throw
NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
(comparator.compare(min,
e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first character having the smallest value according to
the provided [comparator] or `null` if there are no characters.\n * \n *\n@SinceKotlin("1.4")\npublic fun
CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var

```

```

min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n */\n * @sample\n samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n  return\n isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n */\n * @sample\n samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun\n CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return\n false\n  return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself\n afterwards.\n */\n * @SinceKotlin("1.1")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S\n {\n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each\n character, providing sequential index with the character,\n */\n * and returns the char sequence itself afterwards.\n */\n * @param [action] function that takes the index of a character and the character itself\n */\n * and performs the action on\n the character.\n */\n * @SinceKotlin("1.4")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index:\n Int, Char) -> Unit): S {\n  return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with\n the first character and applying [operation] from left to right\n */\n * to current accumulator value and each character.\n */\n * Throws an exception if this char sequence is empty. If the char sequence\n\n can be empty in an expected way,\n */\n * please use [reduceOrNull] instead. It returns `null` when its receiver is\n empty.\n */\n * @param [operation] function that takes current accumulator value and a character,\n */\n * and calculates\n the next accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline\n fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n  if (isEmpty())\n    throw\n UnsupportedOperationException("Empty char sequence can't be reduced.")\n  var accumulator = this[0]\n  for\n (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return\n accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to\n right\n */\n * to current accumulator value and each character with its index in the original char sequence.\n */\n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected\n\n way,\n */\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n */\n * @param\n [operation] function that takes the index of a character, current accumulator value and the character itself,\n */\n * and calculates\n the next accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduce\n */\n * @SinceKotlin("1.4")\npublic inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n  if\n (isEmpty())\n    throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n  var\n accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(index, accumulator,\n this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to\n right\n */\n * to current accumulator value and each character with its index in the\n original char sequence.\n */\n * Returns `null` if the char sequence is empty.\n */\n * @param [operation]\n\n function that takes the index of a character, current accumulator value and the character itself,\n */\n * and calculates the\n next accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n\n */\n * @SinceKotlin("1.4")\npublic inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char,\n Char) -> Char): Char? {\n  if (isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in\n 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return\n accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to\n right\n */\n * to current accumulator value and each character.\n */\n * Returns `null` if the char sequence is empty.\n */\n * @param [operation] function that takes current accumulator value and a character,\n */\n * and calculates the next\n accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n\n */\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun\n CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n  if (isEmpty())\n    return null\n  var\n accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator = operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]\n from right to left\n */\n * to each character and current accumulator value.\n */\n * Throws an exception if this char\n sequence is empty. If the char sequence can be empty in an expected way,\n */\n * please use [reduceRightOrNull]

```

instead. It returns `null` when its receiver is empty.

```

\n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n * \n * \n * public inline fun
CharSequence.reduceRight(operation:
(Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n   var accumulator = get(index--)\n
while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to
left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws
an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n * \n * \n * public
inline
fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index =
lastIndex\n   if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n
var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index),
accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character with its index in the original char sequence
and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun CharSequence.reduceRightIndexedOrNull(operation:
(index: Int, Char, acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if (index < 0) return null\n   var
accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index),
accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n * \n * @SinceKotlin("1.4")\n * \n * @WasExperimental(ExperimentalStdlibApi::class)\n * \n * public inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if
(index < 0) return null\n   var accumulator = get(index--)\n   while (index
>= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) ->
R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(length + 1).apply { add(initial)
}\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator,
element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character, its index in the
original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value
passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the
character itself, and calculates the next accumulator value.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.runningFold\n *^@SinceKotlin("1.4")\npublic inline fun <R>
CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n  if
(isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(length + 1).apply { add(initial) }\n
  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator,
this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*^@SinceKotlin("1.4")\npublic inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char):
List<Char> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<Char>(length).apply
  { add(accumulator) }\n  for (index in 1 until length) {\n    accumulator = operation(accumulator, this[index])\n
  result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each character, its index in the original char
sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n *
and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n *^@SinceKotlin("1.4")\npublic inline fun
CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) ->
Char): List<Char> {\n  if (isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result =
ArrayList<Char>(length).apply { add(accumulator) }\n  for (index in 1 until length) {\n    accumulator =
operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and a character, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scan(initial:
R, operation: (acc: R, Char) -> R): List<R> {\n  return runningFold(initial, operation)\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each character,
its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator
value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*^@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R>
CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n  return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each character in the char sequence.\n
*^@Deprecated("Use sumOf instead.")\n
ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum +=
selector(element)\n  }\n  return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n *^@Deprecated("Use sumOf instead.")\n

```

```

ReplaceWith("this.sumOf(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic
inline fun CharSequence.sumOf(selector: (Char) -> Double): Double {\n    var sum: Double = 0.toDouble()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each character in the char sequence.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {\n    var sum: Int = 0.toInt()\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each character in the char sequence.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n
        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n
    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return
sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each character in the char sequence.\n
*\n*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n
    return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n
*\n * The last string in the resulting list may have fewer characters than the given [size].\n
*\n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char
sequence.\n
*\n * @sample samples.text.Strings.chunked\n
*\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n
    return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char
sequences each not exceeding the given [size]\n
* and applies the given [transform] function to an each.\n
*\n * @return list of results of the [transform] applied to an each char sequence.\n
*\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n
*\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n
*\n * The last char sequence may have fewer characters than the given [size].\n
*\n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n
*\n * @sample samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size:
Int, transform: (CharSequence) -> R): List<R> {\n    return windowed(size, size, partialWindows = true, transform
= transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n
*\n * The last string in the resulting sequence may have fewer characters than the given [size].\n
*\n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in
this char sequence.\n
*\n * @sample samples.collections.Collections.Transformations.chunked\n
*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n    return

```



```

chunkedSequence(size) { it.toString() }
}
}

// Splits this char sequence into several char sequences each not
// exceeding the given [size] and applies the given [transform] function to an each.
// @return sequence of results of the [transform] applied to an each char sequence.
// Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
// You should not store it or allow it to escape in some way, unless you made a snapshot of it.
// The last char sequence may have fewer characters than the given [size].
// @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.
// @sample
samples.text.Strings.chunkedTransformToSequence
// Since Kotlin("1.2")
public fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows = true, transform = transform)
}

// Splits the original char sequence into pair of char sequences, where *first* char sequence contains characters for which [predicate] yielded `true`, while *second* char sequence contains characters for which [predicate] yielded `false`.
// @sample
samples.text.Strings.partition
// public inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {
//     val first = StringBuilder()
//     val second = StringBuilder()
//     for (element in this) {
//         if (predicate(element)) {
//             first.append(element)
//         } else {
//             second.append(element)
//         }
//     }
//     return Pair(first, second)
// }

// Splits the original string into pair of strings, where *first* string contains characters for which [predicate] yielded `true`, while *second* string contains characters for which [predicate] yielded `false`.
// @sample
samples.text.Strings.partition
// public inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {
//     val first = StringBuilder()
//     val second = StringBuilder()
//     for (element in this) {
//         if (predicate(element)) {
//             first.append(element)
//         } else {
//             second.append(element)
//         }
//     }
//     return Pair(first.toString(), second.toString())
// }

Returns a list of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.
Several last strings may have fewer characters than the given [size].
Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
@param size the number of elements to take in each window
@param step the number of elements to move the window forward by on an each step, by default 1
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
// @sample
samples.collections.Sequences.Transformations.takeWindows
// Since Kotlin("1.2")
public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {
    return windowed(size, step, partialWindows) { it.toString() }
}

Returns a list of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step].
Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.
You should not store it or allow it to escape in some way, unless you made a snapshot of it.
Several last char sequences may have fewer characters than the given [size].
Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.
@param size the number of elements to take in each window
@param step the number of elements to move the window forward by on an each step, by default 1
@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved
// @sample
samples.collections.Sequences.Transformations.averageWindows
// Since Kotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
    val result = ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (end < 0 || end > thisSize) {
            if (partialWindows) thisSize else break
        } else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

Returns a sequence of snapshots of the

```

window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string. Several last strings may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.takeWindows

```

*^@SinceKotlin("1.2")
npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {
    return windowedSequence(size, step, partialWindows) { it.toString() }
}

```

Returns a sequence of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step]. Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it.

Several last char sequences may have fewer characters than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.averageWindows

```

*^@SinceKotlin("1.2")
npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {
    checkWindowSizeStep(size, step)
    val windows = (if (partialWindows) indices else 0 until length - size + 1) step step
    return windows.asSequence().map { index -> val end = index + size
        val coercedEnd = if (end < 0 || end > length) length else end
        transform(subSequence(index, coercedEnd)) }
}

```

Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index. The returned list has length of the shortest char sequence.

@sample samples.text.Strings.zip

```

npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {
    return zip(other) { c1, c2 -> c1 to c2 }
}

```

Returns a list of values built from the characters of `this` and the [other] char sequences with the same index using the provided [transform] function applied to each pair of characters. The returned list has length of the shortest char sequence.

@sample samples.text.Strings.zipWithTransform

```

npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {
    val length = minOf(this.length, other.length)
    val list = ArrayList<V>(length)
    for (i in 0 until length) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

```

Returns a list of pairs of each two adjacent characters in this char sequence. The returned list is empty if this char sequence contains less than two characters.

@sample samples.collections.Collections.Transformations.zipWithNext

```

*^@SinceKotlin("1.2")
npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {
    return zipWithNext { a, b -> a to b }
}

```

Returns a list containing the results of applying the given [transform] function to an each pair of two adjacent characters in this char sequence. The returned list is empty if this char sequence contains less than two characters.

@sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas

```

npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {
    val size = length - 1
    if (size < 1) return emptyList()
    val result = ArrayList<R>(size)
    for (index in 0 until size) {
        result.add(transform(this[index], this[index + 1]))
    }
    return result
}

```

Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.

```

npublic fun CharSequence.asIterable(): Iterable<Char> {
    if (this is String && isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

```

Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.

```

npublic fun CharSequence.asSequence(): Sequence<Char> {
    if

```

```

(this is String && isEmpty()) return emptySequence()\n    return Sequence { this.iterator() }\n}\n\n"/\n *
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of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\nimport kotlin.contracts.contract\nimport kotlin.jvm.JvmName\n\n/**\n * Returns a copy of this string
converted to upper case using the rules of the default locale.\n */\n@Deprecated("Use uppercase() instead.",
ReplaceWith("uppercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toUpperCase(): String\n\n/**\n * Returns a copy of this string converted to upper case using Unicode
mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n *
@sample samples.text.Strings.uppercase\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.uppercase():
String\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n
*/\n\n@Deprecated("Use lowercase() instead.",
ReplaceWith("lowercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toLowerCase(): String\n\n/**\n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n *
@sample samples.text.Strings.lowercase\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.lowercase(): String\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case
of a character
is usually the same as its upper case with several exceptions.\n * The particular list of characters with the special
title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n
*/\n\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase())
it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.capitalize(): String\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample
samples.text.Strings.decapiatalize\n */\n\n@Deprecated("Use replaceFirstChar instead.",
ReplaceWith("replaceFirstChar { it.lowercase() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic
expect fun String.decapiatalize(): String\n\n/**\n * Returns a sub sequence of this char sequence having leading and
trailing
characters matching the [predicate] removed.\n */\n\npublic inline fun CharSequence.trim(predicate: (Char) ->
Boolean): CharSequence {\n    var startIndex = 0\n    var endIndex = length - 1\n    var startFound = false\n\n    while (startIndex <= endIndex) {\n        val index = if (!startFound) startIndex else endIndex\n        val match =
predicate(this[index])\n\n        if (!startFound) {\n            if (!match)\n                startFound = true\n            else\n                startIndex += 1\n        } else {\n            if (!match)\n                break\n            else\n                endIndex -= 1\n        }\n    }\n\n    return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and
trailing characters matching the [predicate] removed.\n */\n\npublic inline fun String.trim(predicate: (Char) ->
Boolean): String =\n    (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this
char sequence having leading characters
matching the [predicate] removed.\n */\n\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean):
CharSequence {\n    for (index in this.indices)\n        if (!predicate(this[index]))\n            return subSequence(index,
length)\n\n    return ""\n}\n\n/**\n * Returns a string having leading characters matching the [predicate]
removed.\n */\n\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n    (this as
CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having

```

```

trailing characters matching the [predicate] removed.\n *\npublic inline fun CharSequence.trimEnd(predicate:
(Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if (!predicate(this[index]))\n
return subSequence(0, index + 1)\n\n return \"\"\n}\n\n * Returns a string having trailing characters
matching the [predicate] removed.\n *\npublic inline fun String.trimEnd(predicate:
(Char) -> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n **\n * Returns a sub
sequence of this char sequence having leading and trailing characters from the [chars] array removed.\n *\npublic
fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n **\n * Returns a string having
leading and trailing characters from the [chars] array removed.\n *\npublic fun String.trim(vararg chars: Char):
String = trim { it in chars }\n\n **\n * Returns a sub sequence of this char sequence having leading characters from
the [chars] array removed.\n *\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart {
it in chars }\n\n **\n * Returns a string having leading characters from the [chars] array removed.\n *\npublic fun
String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n **\n * Returns a sub sequence of this char
sequence having trailing characters from the [chars] array removed.\n *\npublic
fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n **\n * Returns a string
having trailing characters from the [chars] array removed.\n *\npublic fun String.trimEnd(vararg chars: Char):
String = trimEnd { it in chars }\n\n **\n * Returns a sub sequence of this char sequence having leading and trailing
whitespace removed.\n *\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n **\n *
Returns a string having leading and trailing whitespace removed.\n *\n@kotlin.internal.InlineOnly\npublic inline
fun String.trim(): String = (this as CharSequence).trim().toString()\n\n **\n * Returns a sub sequence of this char
sequence having leading whitespace removed.\n *\npublic fun CharSequence.trimStart(): CharSequence =
trimStart(Char::isWhitespace)\n\n **\n * Returns a string having leading whitespace removed.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun String.trimStart(): String = (this as
CharSequence).trimStart().toString()\n\n **\n
* Returns a sub sequence of this char sequence having trailing whitespace removed.\n *\npublic fun
CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\n\n **\n * Returns a string having trailing
whitespace removed.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n **\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified character or space.\n *\n * @param length the desired
string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.
Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char
sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padStart\n *\npublic fun CharSequence.padStart(length: Int, padChar:
Char = ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is
less than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n **\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *\n
* @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padStart\n *\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n
(this as CharSequence).padStart(length, padChar).toString()\n\n **\n
* Returns a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the
specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to
pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char
sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\n * as
are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n *\npublic fun
CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n if (length < 0)\n throw
IllegalArgumentException("Desired length $length is less than zero.")\n if (length <= this.length)\n return

```

```

this.subSequence(0, this.length)\n\n    val sb = StringBuilder(length)\n    sb.append(this)\n    for (i in 1..(length -
this.length))\n        sb.append(padChar)\n    return sb\n}\n\n/**\n * Pads
the string to the specified [length] at the end with the specified character or space.\n * @param length the
desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length]
specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string
appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n    (this as
CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is either
`null` or empty.\n * @sample samples.text.Strings.stringIsNullOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n    contract {\n
returns(false) implies (this@isNullOrEmpty != null)\n    }\n\n    return this == null || this.length == 0\n}\n\n/**\n * Returns `true`
if this char sequence is empty (contains no characters).\n * @sample samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n * @sample samples.text.Strings.stringIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n//
implemented differently in JVM and JS\n//public fun String.isBlank(): Boolean = length() == 0 || all {
it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence is not empty and contains some characters
except of whitespace characters.\n * @sample samples.text.Strings.stringIsNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\n * @sample samples.text.Strings.stringIsNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\n    contract {\n
returns(false) implies (this@isNullOrBlank != null)\n    }\n\n    return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n */\npublic operator fun CharSequence.iterator(): CharIterator =
object : CharIterator() {\n    private var index = 0\n\n    public override fun nextChar(): Char = get(index++)\n\n    public override fun hasNext(): Boolean = index < length\n}\n\n/**\n * Returns the string if it is not `null`, or the empty
string otherwise. *\n */\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n/**\n * Returns this char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence
is empty.\n * @sample samples.text.Strings.stringIfEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <C, R>
C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else
this\n\n/**\n * Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling [defaultValue] function otherwise.\n * @sample samples.text.Strings.stringIfNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifNotBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n\n/**\n * Returns the range of valid
character indices for this char sequence.\n */\npublic val CharSequence.indices: IntRange\n    get() = 0..length -
1\n\n/**\n * Returns the index of the last character in the char sequence or -1 if it is empty.\n */\npublic val
CharSequence.lastIndex: Int\n    get() = this.length - 1\n\n/**\n * Returns `true` if this CharSequence has Unicode
surrogate pair at the specified [index].\n */\npublic fun CharSequence.hasSurrogatePairAt(index:
Int): Boolean {\n    return index in 0..length - 2\n        && this[index].isHighSurrogate()\n        && this[index
+ 1].isLowSurrogate()\n}\n\n/**\n * Returns a substring specified by the given [range] of indices.\n */\npublic fun
String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a
subsequence of this char sequence specified by the given [range] of indices.\n */\npublic fun
CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive +
1)\n\n/**\n * Returns a subsequence of this char sequence.\n * @sample samples.text.Strings.subSequence\n * This extension is chosen only for invocation with
old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n */\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false

```

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warning\n@Deprecated("\Use parameters named startIndex and endIndex.\", ReplaceWith("\subSequence(startIndex
= start, endIndex =
end)")\n)\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start,
end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and
ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n * @param endIndex the
end index (exclusive). If not specified, the length of the char sequence is used.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):
String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the
specified [range] of this char sequence.\n *\npublic fun CharSequence.substring(range: IntRange): String =
subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first
occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original
string.\n *\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n
val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0,
index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain
the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun
String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n val index =
indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns
a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter:
Char, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index
== -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first
occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.\n *\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue:
String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else
substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n *\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this):
String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0,
index)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n
* If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original
string.\n *\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String
{\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0,
index)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain
the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun
String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\n val index =
lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + 1,
length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain
the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun
String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n val index =
lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + delimiter.length,
length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range\n
* is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first character to be
replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n
*\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence):
CharSequence {\n if (endIndex < startIndex)\n throw IndexOutOfBoundsException("\End index ($endIndex)
is less than start index ($startIndex).")\n val sb = StringBuilder()\n sb.appendRange(this, 0, startIndex)\n
sb.append(replacement)\n sb.appendRange(this, endIndex, length)\n return sb\n}\n\n/**\n * Replaces

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the part of the string at the given range with the [replacement] char sequence.

```

    * @param startIndex the index of the first character to be replaced.
    * @param endIndex the index of the first character after the replacement to keep in the string.
    * @kotlin.internal.InlineOnly
    public inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =
        (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()
    * Returns a char sequence with content of this char sequence where its part at the given [range] is replaced with the [replacement] char sequence.
    * The end index of the [range] is included in the part to be replaced.
    * @kotlin.internal.InlineOnly
    public fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =
        replaceRange(range.start, range.endInclusive + 1, replacement)
    * Replace the part of string at the given [range] with the [replacement] string.
    * The end index of the [range] is included in the part to be replaced.
    * @kotlin.internal.InlineOnly
    public inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =
        (this as CharSequence).replaceRange(range, replacement).toString()
    * Returns a char sequence with content of this char sequence where its part at the given range is removed.
    * @param startIndex the index of the first character to be removed.
    * @param endIndex the index of the first character after the removed part to keep in the string.
    * [endIndex] is not included in the removed part.
    * @public fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {
        if (endIndex < startIndex) throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")
        if (endIndex == startIndex) return this.subSequence(0, length)
        val sb = StringBuilder(length - (endIndex - startIndex))
        sb.appendRange(this, 0, startIndex)
        sb.appendRange(this, endIndex, length)
        return sb
    }
    * Removes the part of a string at a given range.
    * @param startIndex the index of the first character to be removed.
    * @param endIndex the index of the first character after the removed part to keep in the string.
    * [endIndex] is not included in the removed part.
    * @kotlin.internal.InlineOnly
    public inline fun String.removeRange(startIndex: Int, endIndex: Int): String =
        (this as CharSequence).removeRange(startIndex, endIndex).toString()
    * Returns a char sequence with content of this char sequence where its part at the given [range] is removed.
    * The end index of the [range] is included in the removed part.
    * @public fun CharSequence.removeRange(range: IntRange): CharSequence =
        removeRange(range.start, range.endInclusive + 1)
    * Removes the part of a string at the given [range].
    * The end index of the [range] is included in the removed part.
    * @kotlin.internal.InlineOnly
    public inline fun String.removeRange(range: IntRange): String =
        (this as CharSequence).removeRange(range).toString()
    * If this char sequence starts with the given [prefix], returns a new char sequence with the prefix removed. Otherwise, returns a new char sequence with the same characters.
    * @public fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {
        if (startsWith(prefix)) return subSequence(prefix.length, length)
        return subSequence(0, length)
    }
    * If this string starts with the given [prefix], returns a copy of this string with the prefix removed. Otherwise, returns this string.
    * @public fun String.removePrefix(prefix: CharSequence): String {
        if (startsWith(prefix)) return substring(prefix.length)
        return this
    }
    * If this char sequence ends with the given [suffix], returns a new char sequence with the suffix removed. Otherwise, returns a new char sequence with the same characters.
    * @public fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {
        if (endsWith(suffix)) return subSequence(0, length - suffix.length)
        return subSequence(0, length)
    }
    * If this string ends with the given [suffix], returns a copy of this string with the suffix removed. Otherwise, returns this string.
    * @public fun String.removeSuffix(suffix: CharSequence): String {
        if (endsWith(suffix)) return substring(0, length - suffix.length)
        return this
    }
    * When this char sequence starts with the given [prefix] and ends with the given [suffix], returns a new char sequence having both the given [prefix] and [suffix] removed. Otherwise returns a new char sequence with the same characters.
    * @public fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {
        if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) return subSequence(prefix.length, length - suffix.length)
        return subSequence(0, length)
    }
    * Removes from a string both the given [prefix] and [suffix] if and only if

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starts with the [prefix] and ends with the [suffix].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun  
String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >= prefix.length +  
suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length, length -  
suffix.length)\n }\n return this\n}\n\n/\*\*\n \* When this char sequence starts with and ends with the given  
[delimiter],\n \* returns a new char sequence having this [delimiter] removed both from the start and end.\n \*  
Otherwise returns a new char sequence with the same characters.\n \*/\npublic fun  
CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter,  
delimiter)\n}\n\n/\*\*\n \* Removes the given [delimiter] string from both the start and the end of this string\n \* if and only if it starts with  
and ends with the [delimiter].\n \* Otherwise returns this string unchanged.\n \*/\npublic fun  
String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n}\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n \* If the string  
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun  
String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val  
index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,  
replacement)\n}\n\n/\*\*\n \* Replace part of string before the first occurrence of given delimiter with the  
[replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue]  
which defaults to the original string.\n \*/\npublic fun  
String.replaceBefore(delimiter: String, replacement: String,  
missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1)  
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/\*\*\n \* Replace part of string after the first  
occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns  
[missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun  
String.replaceAfter(delimiter: Char,  
replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if  
(index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/\*\*\n \* Replace part  
of string after the first occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain  
the delimiter, returns [missingDelimiterValue] which defaults  
to the original string.\n \*/\npublic fun  
String.replaceAfter(delimiter: String, replacement: String,  
missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1)  
missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/\*\*\n \* Replace part  
of string after the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain  
the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun  
String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val  
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index +  
delimiter.length, length, replacement)\n}\n\n/\*\*\n \* Replace part of string after the last occurrence of given  
delimiter with the [replacement] string.\n \* If the string does not contain the delimiter, returns  
[missingDelimiterValue]  
which defaults to the original string.\n \*/\npublic fun  
String.replaceAfterLast(delimiter: Char, replacement: String,  
missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1)  
missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/\*\*\n \* Replace part of string  
before the last occurrence of given delimiter with the [replacement] string.\n \* If the string does not contain the  
delimiter, returns [missingDelimiterValue] which defaults to the original string.\n \*/\npublic fun  
String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val  
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index,  
replacement)\n}\n\n/\*\*\n \* Replace part of string before the last occurrence of given delimiter with the  
[replacement] string.\n \* If the string does not contain the delimiter, returns [missingDelimiterValue]  
which defaults to the original string.\n \*/\npublic fun  
String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val  
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n// public fun String.replace(oldChar:



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Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue:
String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string
obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the
given [replacement].\n *\n * The [replacement] can consist of any combination of literal text and $-substitutions. To
treat the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement]
method.\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex:
Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by
replacing each substring of this char sequence that matches the given regular expression\n * with the result of the
given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement for that
match.\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline
transform: (MatchResult) -> CharSequence): String =\n    regex.replace(this, transform)\n\n/**\n * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n
*\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n *\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns
a copy of this string having its first character replaced with the result of the specified [transform],\n * or the original
string if it's empty.\n *\n * @param transform function that takes the first character and returns the result of the
transform applied to the character.\n *\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.Exper
imentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("\nreplaceFirstCharWithC
har")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n
    return if (isEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string
having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n
*\n * @param transform function that takes the first character and returns the result of the transform
applied to the character.\n *\n * @sample samples.text.Strings.replaceFirstChar\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.Exper
imentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("\nreplaceFirstCharWithC
harSequence")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) ->
CharSequence): String {\n    return if (isEmpty()) transform(this[0]).toString() + substring(1) else
this\n}\n\n/**\n * Returns `true` if this char sequence matches the given regular expression.\n
*\n */\n@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean =
regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n * Invoked when it's
already known that arguments are not Strings, so that no additional type checks are performed.\n *\n */\ninternal fun
CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset:
Int, length: Int, ignoreCase: Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset >
this.length - length) || (otherOffset > other.length - length)) {\n        return false\n    }\n\n    for (index in 0 until
length) {\n        if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n            return false\n
    }\n    return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified character.\n
*/\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*/\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n */\npublic fun CharSequence.startsWith(prefix:
CharSequence, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n
        return this.startsWith(prefix)\n    else\n        return regionMatchesImpl(0, prefix, 0, prefix.length,
ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the specified offset
[startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence,
startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && prefix is String)\n

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return this.startsWith(prefix, startIndex)\n else\n return regionMatchesImpl(startIndex, prefix, 0,
prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char sequence ends with the specified suffix.\n
*/\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n if
(!ignoreCase && this is String && suffix is String)\n return this.endsWith(suffix)\n
else\n return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n// common
prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence
both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common prefix,
returns the empty string.\n * @param ignoreCase `true` to ignore character case when matching a character. By
default `false`.\n * @sample samples.text.Strings.commonPrefixWith\n */\npublic fun
CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n val
shortestLength = minOf(this.length, other.length)\n\n var i = 0\n while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n i++\n }\n if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n i--\n }\n return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest
string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking care not to
split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n * @param
ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonSuffixWith\n */\npublic fun CharSequence.commonSuffixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n val thisLength = this.length\n val otherLength = other.length\n val
shortestLength = minOf(thisLength, otherLength)\n\n var i = 0\n while (i < shortestLength && this[thisLength -
i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n i++\n }\n if
(this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n i--\n }\n
return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/**\n * Finds the index
of the first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified
[startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when
matching a character. By default `false`.\n * @return An index of the first occurrence of matched character from
[chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.indexOfAny(chars: CharArray,
startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n if (!ignoreCase && chars.size == 1 && this is String) {\n
val char = chars.single()\n return nativeIndexOf(char, startIndex)\n }\n\n for (index in
startIndex.coerceAtLeast(0)..lastIndex) {\n val charAtIndex = get(index)\n if (chars.any {
it.equals(charAtIndex, ignoreCase) })\n return index\n }\n return -1\n}\n\n/**\n * Finds the index of the
last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified
[startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at.
The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n * @return An index of the last occurrence of matched
character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun CharSequence.lastIndexOfAny(chars:
CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n if (!ignoreCase && chars.size == 1
&& this is String) {\n val char = chars.single()\n return nativeLastIndexOf(char, startIndex)\n }\n\n
for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n val charAtIndex = get(index)\n if
(chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n\n return -1\n}\n\nprivate fun
CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex:
Int, ignoreCase: Boolean, last: Boolean = false): Int {\n val indices = if (!last)\n
startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n else\n startIndex.coerceAtMost(lastIndex)
downTo endIndex.coerceAtLeast(0)\n\n if (this is String && other is String) { // smart cast\n for (index in
indices) {\n if (other.regionMatches(0, this, index, other.length, ignoreCase))\n return index\n
}\n } else {\n for (index in indices) {\n if (other.regionMatchesImpl(0, this, index, other.length,
ignoreCase))\n return index\n }\n }\n return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings:
Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n if (!ignoreCase

```

```

&& strings.size == 1) {\n    val string = strings.single()\n    val index = if (!last) indexOf(string, startIndex) else\n    lastIndexOf(string, startIndex)\n    return if\n    (index < 0) null else index to string\n  }\n  val indices = if (!last) startIndex.coerceAtLeast(0)..length else\n  startIndex.coerceAtMost(lastIndex) downTo 0\n  if (this is String) {\n    for (index in indices) {\n      val\n      matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n      if\n      (matchingString != null)\n        return index to matchingString\n    }\n  } else {\n    for (index in indices)\n    {\n      val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n      if (matchingString != null)\n        return index to matchingString\n    }\n  }\n  return\n  null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n * @param ignoreCase `true` to ignore character case when matching a string. By default\n * `false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string\n * matched or `null` if none of [strings] are found.\n * To avoid ambiguous results when strings in [strings]\n * have characters in common, this method proceeds from the beginning to the end of this string, and finds at each\n * position the first element in [strings] that matches this string at that position.\n */\npublic fun\nCharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int,\nString>? =\n  findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n * @param startIndex The index of character to start searching at. The search proceeds backward toward\n * the beginning of the string.\n * @param ignoreCase `true` to ignore character case when\n * matching a string. By default `false`.\n * @return A pair of an index of the last occurrence of matched string from\n * [strings] and the string matched or `null` if none of [strings] are found.\n * To avoid ambiguous results when\n * strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this\n * string, and finds at each position the first element in [strings] that matches this string at that position.\n */\npublic fun\nCharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase:\nBoolean = false): Pair<Int, String>? =\n  findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n * @param ignoreCase `true` to ignore character case when\n * matching a string. By default `false`.\n * @return An index of the first occurrence\n * of matched string from [strings] or -1 if none of [strings] are found.\n * To avoid ambiguous results when\n * strings in [strings] have characters in common, this method proceeds from the beginning to the end of this string,\n * and finds at each position the first element in [strings] that matches this string at that position.\n */\npublic fun\nCharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n  findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence\n * of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally\n * ignoring the case.\n * @param startIndex The index of character to start searching at. The search proceeds\n * backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching\n * a string. By default `false`.\n * @return An index of the last\n * occurrence of matched string from [strings] or -1 if none of [strings] are found.\n * To avoid ambiguous results\n * when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of\n * this string, and finds at each position the first element in [strings] that matches this string at that position.\n */\npublic fun\nCharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase:\nBoolean = false): Int =\n  findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n/**\n * Returns the index within this string of the first occurrence of the specified character, starting\n * from the specified [startIndex].\n * @param ignoreCase `true` to ignore character case when matching a\n * character. By default `false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun\nCharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false):

```

```

Int {
    return if (ignoreCase || this !is String)
        indexOfAny(charArrayOf(char), startIndex, ignoreCase)
    else
        nativeIndexOf(char, startIndex)
}

/**
 * Returns the index within this char sequence of the first
 * occurrence of the specified [string],
 * starting from the specified [startIndex].
 * @param ignoreCase `true` to
 * ignore character case when matching a string. By default `false`.
 * @return An index of the first occurrence of
 * [string] or -1 if none is found.
 * @sample samples.text.Strings.indexOf
 */
public fun
CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {
    return if
        (ignoreCase || this !is String)
            indexOf(string, startIndex, length, ignoreCase)
        else
            nativeIndexOf(string, startIndex)
}

/**
 * Returns the index within this char sequence of the last occurrence of
 * the specified character,
 * starting from the specified [startIndex].
 * @param startIndex
 * The index of character to start searching at. The search proceeds backward toward the beginning of the string.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An
 * index of the last occurrence of [char] or -1 if none is found.
 */
public fun CharSequence.lastIndexOf(char: Char,
    startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)
    else
        nativeLastIndexOf(char,
        startIndex)
}

/**
 * Returns the index within this char sequence of the last occurrence of the specified
 * [string],
 * starting from the specified [startIndex].
 * @param startIndex The index of character to start
 * searching at. The search proceeds backward toward the beginning of the string.
 * @param ignoreCase `true` to
 * ignore character case when matching a string. By default `false`.
 * @return An index of the last
 * occurrence of [string] or -1 if none is found.
 */
public fun CharSequence.lastIndexOf(string: String, startIndex:
    Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        indexOf(string,
        startIndex, 0, ignoreCase, last = true)
    else
        nativeLastIndexOf(string, startIndex)
}

/**
 * Returns
 * `true` if this char sequence contains the specified [other] sequence of characters as a substring.
 * @param
 * ignoreCase `true` to ignore character case when comparing strings. By default `false`.
 */
@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
public operator fun
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
    if (other is String)
        indexOf(other, ignoreCase = ignoreCase) >= 0
    else
        indexOf(other, 0, length, ignoreCase) >=
        0

/**
 * Returns `true` if this char sequence contains the specified character [char].
 * @param
 * ignoreCase `true` to ignore
 * character case when comparing characters. By default `false`.
 */
@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
public operator fun CharSequence.contains(char:
    Char, ignoreCase: Boolean = false): Boolean =
    indexOf(char, ignoreCase = ignoreCase) >= 0

/**
 * Returns
 * `true` if this char sequence contains at least one match of the specified regular expression [regex].
 */
@kotlin.internal.InlineOnly
public inline operator fun CharSequence.contains(regex: Regex): Boolean =
    regex.containsMatchIn(this)

// rangesDelimitedBy
private class DelimitedRangesSequence(
    private val input: CharSequence,
    private val startIndex: Int,
    private val limit: Int,
    private val getNextMatch:
    CharSequence.(current: Int) -> Pair<Int, Int>?
) : Sequence<IntRange> {
    override fun iterator():
    Iterator<IntRange> = object : Iterator<IntRange> {
        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for
        continue
        var currentStartIndex: Int = startIndex.coerceIn(0,
        input.length)
        var nextSearchIndex: Int = currentStartIndex
        var nextItem: IntRange? = null
        var
        counter: Int = 0
        private fun calcNext() {
            if (nextSearchIndex < 0) {
                nextState = 0
                nextItem = null
            } else {
                if (limit > 0 && ++counter >= limit || nextSearchIndex >
                input.length) {
                    nextItem = currentStartIndex..input.lastIndex
                    nextSearchIndex = -1
                } else {
                    val match = input.getNextMatch(nextSearchIndex)
                    if (match == null) {
                        nextItem = currentStartIndex..input.lastIndex
                        nextSearchIndex = -1
                    } else {
                        val (index, length) = match
                        nextItem = currentStartIndex until index
                        currentStartIndex = index + length
                        nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0
                    }
                }
            }
        }
        override fun next(): IntRange {
            if (nextState == -1)

```

```

calcNext()\n        if (nextState == 0)\n            throw NoSuchElementException()\n        val result = nextItem
as IntRange\n        // Clean next to avoid keeping reference on yielded instance\n        nextItem = null\nnextState = -1\n        return result\n    }\n    override fun hasNext(): Boolean {\n        if (nextState == -
1)\n            calcNext()\n        return nextState == 1\n    }\n}\n\n/**\n * Returns a sequence of index
ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param
delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching
delimiters
from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to be non-
negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when
matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by
default means no limit is set.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex:
Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n        indexOfAny(delimiters,
currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }\n    })\n}\n\n/**\n * Returns a sequence
of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * @param
delimiters One or more strings to be used as delimiters.\n * @param startIndex
The index to start searching delimiters from.\n * No range having its start value less than [startIndex] is returned.\n
* [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true`
to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of
substrings to return. Zero by default means no limit is set.\n * @param To avoid ambiguous results when strings in
[delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and
finds at each position the first element in [delimiters]\n * that matches this string at that position.\n */\nprivate fun
CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false,
limit: Int = 0): Sequence<IntRange> {\n    requireNonNegativeLimit(limit)\n    val delimitersList =
delimiters.asList()\n    return DelimitedRangesSequence(this, startIndex, limit, { currentIndex
-> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
})\n}\n\ninternal fun requireNonNegativeLimit(limit: Int) =\n    require(limit >= 0) { "Limit must be non-
negative, but was $limit" }\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n * @param delimiters One or more strings to be used as delimiters.\n
* @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param
limit The maximum number of substrings to return. Zero by default means no limit is set.\n * @param To avoid
ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the
beginning to the end of this string, and finds at each position the first element in [delimiters]\n * that matches
this string at that position.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters:
String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n    rangesDelimitedBy(delimiters,
ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings
around occurrences of the specified [delimiters].\n * @param delimiters One or more strings to be used as
delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n
* @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n * @param To
avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the
beginning to the end of this string, and matches at each position the first element in [delimiters]\n * that is equal
to a delimiter in this instance at that position.\n */\npublic fun CharSequence.split(vararg delimiters: String,
ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n    if (delimiters.size == 1)\n        {\n            val delimiter = delimiters[0]\n            if (!delimiter.isEmpty()) {\n                return split(delimiter, ignoreCase,
limit)\n            }\n        }\n    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit =
limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n * @param delimiters One or more characters to be used as
delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n
*

```

```

@param limit The maximum number of substrings to return.
public fun CharSequence.splitToSequence(vararg
delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }
* Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
@param delimiters One or
more
characters to be used as delimiters.
@param ignoreCase `true` to ignore character case when matching a
delimiter. By default `false`.
@param limit The maximum number of substrings to return.
public fun
CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
if
(delimiters.size == 1) {
return split(delimiters[0].toString(), ignoreCase, limit)
}
return
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}
* Splits this char sequence to a list of strings around occurrences of the specified [delimiter].
* This is specialized
version of split which receives single non-empty delimiter and offers better performance
@param delimiter
String used as delimiter
@param ignoreCase `true` to ignore character case when matching a delimiter. By
default `false`.
@param limit The maximum number of substrings to return.
private fun
CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
requireNonNegativeLimit(limit)
var currentOffset = 0
var nextIndex = indexOf(delimiter, currentOffset,
ignoreCase)
if (nextIndex == -1 || limit == 1) {
return listOf(this.toString())
}
val isLimited =
limit > 0
val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
do {
result.add(substring(currentOffset, nextIndex))
currentOffset = nextIndex + delimiter.length
// Do not
search for next occurrence if we're reaching limit
if (isLimited && result.size == limit - 1) break
nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
} while (nextIndex != -1)
result.add(substring(currentOffset, length))
return result
}
* Splits this char sequence to a list of
strings around matches of the given regular expression.
@param limit Non-negative value specifying
the maximum number of substrings to return.
* Zero by default means no limit is set.
@kotlin.internal.InlineOnly
public inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)
* Splits this char sequence to a sequence of strings around matches of the given
regular expression.
@param limit Non-negative value specifying the maximum number of substrings to
return.
* Zero by default means no limit is set.
@sample samples.text.Strings.splitToSequence
@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@kotlin.internal.InlineOnly
public
inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
regex.splitToSequence(this, limit)
* Splits this char sequence to a sequence of lines delimited by any of the
following character sequences: CRLF, LF or CR.
@param limit The lines returned do not include terminating line
separators.
public fun CharSequence.lineSequence():
Sequence<String> = splitToSequence("\\r\\n", "\\n", "\\r")
* Splits this char sequence to a list of lines
delimited by any of the following character sequences: CRLF, LF or CR.
* The lines returned do not include
terminating line separators.
public fun CharSequence.lines(): List<String> = lineSequence().toList()
* Returns `true` if the contents of this char sequence are equal to the contents of the specified [other],
i.e. both char
sequences contain the same number of the same characters in the same order.
@sample
samples.text.Strings.contentEquals
@SinceKotlin("1.5")
public expect infix fun
CharSequence?.contentEquals(other: CharSequence?): Boolean
* Returns `true` if the contents of this char
sequence are equal to the contents of the specified [other], optionally ignoring case difference.
@param
ignoreCase `true` to ignore character case when comparing contents.
@sample
samples.text.Strings.contentEquals
@SinceKotlin("1.5")
public expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase:
Boolean): Boolean
internal fun CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean
{
if (this is String && other is String) {
return this.equals(other, ignoreCase = true)
}
if (this ==
other) return true
if (this == null || other == null || this.length != other.length) return false
for (i in 0 until
length) {
if (!this[i].equals(other[i], ignoreCase = true)) {
return false
}
}
return
}

```

```

true}\n\ninternal fun CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n  if (this is String
&& other is String) {\n    return this == other\n  }\n  if (this === other) return true\n  if (this == null || other
== null || this.length != other.length) return false\n  for (i in 0 until length) {\n    if (this[i] != other[i]) {\n
return false\n    }\n  }\n  return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the
word `true`, `false` if it is equal to `false`,\n * and throws an exception otherwise.\n *\n * There is also a lenient
version of the function available on nullable String, [String?.toBoolean].\n *\n * Note that this function is case-
sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrict\n *\n@SinceKotlin("1.5")\npublic fun
String.toBooleanStrict(): Boolean = when (this) {\n  "true" -> true\n  "false" -> false\n  else -> throw
IllegalArgumentException("The string doesn't represent a boolean value: $this")\n}\n\n/**\n * Returns `true` if the
content of this string is equal to the word `true`, `false` if it is equal to `false`,\n * and `null` otherwise.\n *\n *
There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n *\n * Note that this
function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrictOrNull\n
*\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n  "true" ->
true\n  "false" -> false\n  else -> null\n},"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) :
Collection<UByte> {\n  /**\n   * Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(ByteArray(size))\n  /**\n   * Returns the array element at the given [index].
This method can be called using the index operator.\n   * If the [index] is out
of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is
unspecified.\n   *\n   * public operator fun get(index: Int): UByte = storage[index].toUByte()\n  /**\n   * Sets
the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *
If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   *
where the behavior is unspecified.\n   *\n   * public operator fun set(index: Int, value: UByte) {\n
storage[index] = value.toByte()\n  }\n  /**\n   * Returns the number of elements in the array. *\n   * public override
val size: Int get() = storage.size\n  /**\n   * Creates an iterator over the elements of the array. *\n   * public override
operator fun iterator(): kotlin.collections.Iterator<UByte> = Iterator(storage)\n  private class Iterator(private val
array: ByteArray) : kotlin.collections.Iterator<UByte> {\n
  private var index = 0\n  override fun hasNext() = index < array.size\n  override fun next() = if (index
< array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n  }\n  override
fun contains(element: UByte): Boolean {\n    // TODO: Eliminate this check after KT-30016 gets fixed.\n    //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n    if ((element as Any?) !is UByte) return false\n    return
storage.contains(element.toByte())\n  }\n  override fun containsAll(elements: Collection<UByte>): Boolean {\n
return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n  }\n  override fun
isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called
for each array element sequentially starting from the first one.\n *\n * It should return the value for an array element
given its index.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n  return UByteArray(ByteArray(size) { index
-> init(index).toByte()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n},"/**\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic

```

```

value class UIntArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray)
: Collection<UInt> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(IntArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n * \n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n * \n public
operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the element at the given [index] to
the given [value]. This method can be called using the index operator.\n * \n * If the [index] is out of bounds of
this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n public operator fun set(index: Int, value: UInt) {\n storage[index] = value.toInt()\n }\n\n /** Returns
the number of elements
in the array. *\n public override val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of
the array. *\n public override operator fun iterator(): kotlin.collections.Iterator<UInt> = Iterator(storage)\n\n
private class Iterator(private val array: IntArray) : kotlin.collections.Iterator<UInt> {\n private var index = 0\n
override fun hasNext() = index < array.size\n override fun next() = if (index < array.size)
array[index++].toInt() else throw NoSuchElementException(index.toString())\n }\n\n override fun
contains(element: UInt): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n
@Suppress("USELESS_CAST")\n if ((element as Any?) !is UInt) return false\n\n return
storage.contains(element.toInt())\n }\n\n override fun containsAll(elements: Collection<UInt>): Boolean {\n
return
(elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n }\n\n override fun isEmpty():
Boolean = this.storage.size == 0\n\n/**\n * Creates a new array of the specified [size], where each element is
calculated by calling the specified\n * [init] function.\n * \n * The function [init] is called for each array element
sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n * \n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) :
Collection<ULong> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(LongArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n * \n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n * \n public
operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n
*\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in
Kotlin/JS\n * where the behavior is unspecified.\n * \n public operator fun set(index: Int, value: ULong) {\n
storage[index] = value.toLong()\n }\n\n /** Returns the number of elements in the array. *\n public override
val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. *\n public override
operator fun iterator(): kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n private class Iterator(private val
array: LongArray) : kotlin.collections.Iterator<ULong> {\n private var index = 0\n override fun hasNext() =
index < array.size\n override fun next() = if (index < array.size) array[index++].toULong() else throw
NoSuchElementException(index.toString())\n }\n\n override fun contains(element: ULong): Boolean {\n //

```



TODO: Eliminate this check after KT-30016 gets

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fixed.\n    // Currently JS BE does not generate special bridge method for this method.\n@Suppress(\"USELESS_CAST\")\n    if ((element as Any?) !is ULong) return false\n\n    return\nstorage.contains(element.toLong())\n    }\n\n    override fun containsAll(elements: Collection<ULong>): Boolean\n    {\n        return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\n    }\n\n    override\nfun isEmpty(): Boolean = this.storage.size == 0\n\n    /**\n * Creates a new array of the specified [size], where each\n element is calculated by calling the specified\n * [init] function.\n * The function [init] is called for each array\n element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n *\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n    return ULongArray(LongArray(size) {\n        index -> init(index).toLong()\n    })\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nulongArrayOf(vararg elements: ULong): ULongArray = elements\n\n    /*\n * Copyright 2010-2023 JetBrains s.r.o.\n and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n that can be found in the license/LICENSE.txt file.\n */\n\n    // Auto-generated file. DO NOT EDIT!\n\npackage\nkotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic\nvalue class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :\nCollection<UShort> {\n\n    /**\n * Creates a new array of the specified [size], with all elements initialized to zero. *\n */\n    public constructor(size: Int) : this(ShortArray(size))\n\n    /**\n * Returns the array element at the given [index].\n This method can be called using the index operator.\n *\n * If the [index]\n is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the\n behavior is unspecified.\n */\n    public operator fun get(index: Int): UShort = storage[index].toUShort()\n\n    /**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index\n operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except\n in Kotlin/JS\n * where the behavior is unspecified.\n */\n    public operator fun set(index: Int, value: UShort)\n    {\n        storage[index] = value.toShort()\n    }\n\n    /**\n * Returns the number of elements in the array. *\n */\n    public\noverride val size: Int get() = storage.size\n\n    /**\n * Creates an iterator over the elements of the array. *\n */\n    public\noverride operator fun iterator(): kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n    private class\nIterator(private val array: ShortArray) : kotlin.collections.Iterator<UShort>\n    {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun next() = if (index\n < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n    }\n\n    override\nfun contains(element: UShort): Boolean {\n    // TODO: Eliminate this check after KT-30016 gets fixed.\n    //\n    Currently JS BE does not generate special bridge method for this method.\n\n    @Suppress(\"USELESS_CAST\")\n        if ((element as Any?) !is UShort) return false\n\n        return\nstorage.contains(element.toShort())\n    }\n\n    override fun containsAll(elements: Collection<UShort>): Boolean\n    {\n        return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n    }\n\n    override\nfun isEmpty(): Boolean = this.storage.size == 0\n\n    /**\n * Creates a new array of the specified [size], where each\n element is calculated by calling the specified\n * [init] function.\n * The\n function [init] is called for each array element sequentially starting from the first one.\n * It should return the value\n for an array element given its index.\n *\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n    return UShortArray(ShortArray(size) { index ->\n    init(index).toShort()\n    })\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nushortArrayOf(vararg elements: UShort): UShortArray = elements\n\n    /*\n * Copyright 2010-2023 JetBrains s.r.o.\n and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n that can be found in the license/LICENSE.txt file.\n */\n\n    @file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPacka
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getName("kotlin.collections.unsigned")\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED

by the GenerateStandardLib.kt\n// See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n\nimport kotlin.random.\*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n return get(0)\n}\n\n/\*\*\n \* Returns 1st \*element\* from the array.\n \* \n \* If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n return get(0)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \* If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \* If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the

behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \* If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n return get(3)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \* If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5(): UShort {\n return get(4)\n}\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte\n\n/\*\*\n \* Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample samples.collections.Collections.Elements.elementAt\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort\n\n/\*\*\n \* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n \* \n \* @sample\n

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samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns
an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n
* \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample

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samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the first element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n    return storage.first().toUInt()\n}\n\n/**\n * Returns the first element.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n    return storage.first().toULong()\n}\n\n/**\n * Returns the first element.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first():
    UByte {\n    return storage.first().toUByte()\n}\n\n/**\n * Returns the first element.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if
(predicate(element)) return element\n    throw NoSuchElementException("Array contains no element matching the
predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.first(predicate: (UShort) -> Boolean): UShort {^n  for (element
in this) if (predicate(element)) return element^n  throw NoSuchElementException("Array contains no element
matching the predicate.")^n}^n/^n * Returns the first element, or `null` if the array is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.firstOrNull(): UInt? {^n  return
if (isEmpty()) null else this[0]^n}^n/^n * Returns the first element, or `null` if the array is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongArray.firstOrNull(): ULong? {^n
return if (isEmpty()) null else this[0]^n}^n/^n * Returns the first element, or `null` if the array is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.firstOrNull(): UByte? {^n
return if (isEmpty()) null else this[0]^n}^n/^n * Returns the first element, or `null` if the array is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.firstOrNull(): UShort? {^n
return
if (isEmpty()) null else this[0]^n}^n/^n * Returns the first element matching the given [predicate], or `null` if
element was not found.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {^n  for (element in this) if (predicate(element)) return
element^n  return null^n}^n/^n * Returns the first element matching the given [predicate], or `null` if element
was not found.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {^n  for (element in this) if
(predicate(element)) return element^n  return null^n}^n/^n * Returns the first element matching the given
[predicate], or `null` if element was not found.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.firstOrNull(predicate: (UByte)
-> Boolean): UByte? {^n  for (element in this) if (predicate(element)) return element^n  return null^n}^n/^n *
Returns the first element matching the given [predicate], or `null` if element was not found.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {^n  for (element in this) if (predicate(element))
return element^n  return null^n}^n/^n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {^n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)^n}^n/^n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index]
is out of bounds of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {^n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)^n}^n/^n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {^n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)^n}^n/^n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.getOrElse(index:
Int, defaultValue: (Int) -> UShort): UShort {^n  return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)^n}^n/^n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.^n
*  @sample samples.collections.Collections.Elements.getOrNull^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.getOrNull(index: Int): UInt? {^n

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return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
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given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n    return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOf(element: ULong): Int {\n    return storage.indexOf(element.toLong())\n}\n\n/**\n *
Returns first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n    return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n    return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean):
Int {\n    return storage.indexOfFirst { predicate(it.toInt()) }\n}\n\n/**\n * Returns index of the first element
matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if
the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if
the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if
the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n    return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if
the

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array does not contain such element.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n    return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n    return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n    return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {\n    return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {\n    return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
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element.\n *^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.lastIndexOf(element: UInt): Int {\n    return storage.lastIndexOf(element.toInt())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n    return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.lastIndexOf(element: UByte): Int {\n    return
storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not
contain element.\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.lastIndexOf(element: UShort): Int {\n    return
storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n *
@sample samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n *
@sample samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size -
1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n *
@sample
samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.lastOrNull(): UByte? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the
last element, or `null` if the array is empty.\n
*\n *
@sample samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or
`null` if no such element was found.\n
*\n *
@sample samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n
        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n
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@sample
samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n
        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n
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@sample
samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n
        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the
given [predicate], or `null` if no such element was found.\n
*\n *
@sample
samples.collections.Collections.Elements.last\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n
val element = this[index]\n
        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n
*\n *
@throws NoSuchElementException if this array is empty.\n
*^@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n

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* \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the
specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
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randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
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UByte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
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randomness.\n * \n * @throws NoSuchElementException if this array is
empty.\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random:
Random): UShort {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n    return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic
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randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic fun UIntArray.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic
fun ULongArray.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n

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```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UByteArray.randomOrNull(random: Random): UByte? {\n    if (isEmpty())\n        return null\n    return\n    get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n    randomness, or `null` if this array is empty.\n */\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n    if (isEmpty())\n        return null\n    return\n    get(random.nextInt(size))\n}\n\n/**\n * Returns\n    the single element, or throws an exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.single(): UInt {\n    return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an\n    exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.single(): ULong {\n    return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or\n    throws an exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UByteArray.single(): UByte {\n    return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or\n    throws an exception if the array is empty or has more than one element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n    inline fun UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single\n    element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for\n        (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array\n                contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n        (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching\n    the given [predicate], or throws exception if\n    there is no or more than one matching element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n    for\n        (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array\n                contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n        (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single element\n    matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte?\n    = null\n    var found = false\n    for\n        (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n                IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n        (!found) throw NoSuchElementException("Array contains no element matching\n            the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the\n    single element matching the given [predicate], or throws exception if there is no or more than one matching\n    element.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline\n    fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found =\n        false\n    for\n        (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n                IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if\n        (!found) throw NoSuchElementException("Array contains no element\n            matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UShort\n}\n\n/**\n * Returns the\n    single element matching the given [predicate], or throws exception if there is no or more than one matching\n    element.\n */

```

Returns single element, or `null` if the array is empty or has more than one element.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null`\n * if the array is empty or has more than one element.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n    var single: UInt? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n    var single: ULong? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n    var single: UByte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n    var single: UShort? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * * @throws IllegalArgumentException if [n] is negative.\n * * @sample samples.collections.Collections.Transformations.drop\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n
```

```
 * Returns a list containing all elements except first [n] elements.\n * * @throws IllegalArgumentException if [n] is negative.\n * * @sample samples.collections.Collections.Transformations.drop\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * * @throws IllegalArgumentException if [n] is negative.\n * * @sample samples.collections.Collections.Transformations.drop\n */\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * * @throws\n
```

## IllegalArgumentException

```
if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size -\n    n).coerceAtLeast(0))\n}\n\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws\nIllegalArgumentException if [n] is negative.\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -\n    n).coerceAtLeast(0))\n}\n\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws\nIllegalArgumentException if [n] is negative.\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\nfun ULongArray.dropLast(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than\n    zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n * Returns a list containing all elements except last\n [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte>\n{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size -\n    n).coerceAtLeast(0))\n}\n\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws\nIllegalArgumentException if [n] is negative.\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):\nList<UShort> {\n    require(n\n    >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index]))\n            return take(index + 1)\n    }\n    return emptyList()\n}\n\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex\n    downTo 0) {\n        if (!predicate(this[index]))\n            return take(index + 1)\n    }\n    return\n    emptyList()\n}\n\n * Returns a list containing all elements except last elements that satisfy the given\n [predicate].\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0)\n    {\n        if (!predicate(this[index]))\n            return take(index + 1)\n    }\n    return emptyList()\n}\n\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort>\n{\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index]))\n            return take(index + 1)\n    }\n    return emptyList()\n}\n\n * Returns a list containing all elements except first elements that satisfy\n the given [predicate].\n * \n * @sample\nsamples.collections.Collections.Transformations.drop\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
```

```

UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  var yielding = false\n  val list =
ArrayList<UInt>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  var yielding = false\n  val
list = ArrayList<ULong>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  var yielding = false\n  val list =
ArrayList<UByte>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  var yielding = false\n  val list =
ArrayList<UShort>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n      list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate:
(UShort) -> Boolean): List<UShort> {\n  return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a
list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of
an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n  return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

```

```

inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {
    return filterIndexedTo(ArrayList<ULong>(), predicate)
}
/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexed
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {
    return filterIndexedTo(ArrayList<UByte>(), predicate)
}
/**
 * Returns a list containing only elements matching the given [predicate].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexed
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {
    return filterIndexedTo(ArrayList<UShort>(), predicate)
}
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
/**
 * Appends all elements matching the given [predicate] to the given [destination].
 * @param [predicate] function that takes the index of an element and the element itself
 * and returns the result of predicate evaluation on the element.
 * @sample samples.collections.Collections.Filtering.filterIndexedTo
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {
    return filterNotTo(ArrayList<UInt>(), predicate)
}
/**
 * Returns a list containing all elements not matching the given [predicate].
 * @sample samples.collections.Collections.Filtering.filter
 */

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n  return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean):
C {\n  for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n
for (element in this)
if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n  for (element
in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*\n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements

```



matching the given [predicate] to the given [destination].\n \* \n \* @sample  
samples.collections.Collections.Filtering.filterTo\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n if (indices.isEmpty())
return listOf()\n return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n if (indices.isEmpty()) return listOf()\n return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UInt>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<ULong>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UByte>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list =
ArrayList<UShort>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements
of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n return
UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at
specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n return
UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

```

```

UIntArray.sliceArray(indices: IntRange): UIntArray {
    return UIntArray(storage.sliceArray(indices))
}

* Returns an array containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.sliceArray(indices: IntRange):
    ULongArray {
    return ULongArray(storage.sliceArray(indices))
}

* Returns an array containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: IntRange):
    UByteArray {
    return UByteArray(storage.sliceArray(indices))
}

* Returns an array containing elements at indices in the specified [indices] range.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: IntRange):
    UShortArray {
    return UShortArray(storage.sliceArray(indices))
}

* Returns a list containing first [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.take(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UInt>(n)
    for (item in this) {
        list.add(item)
        if (++count == n) break
    }
    return list
}

* Returns a list containing first [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.take(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<ULong>(n)
    for (item in this) {
        list.add(item)
        if (++count == n) break
    }
    return list
}

* Returns a list containing first [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.take(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UByte>(n)
    for (item in this) {
        list.add(item)
        if (++count == n) break
    }
    return list
}

* Returns a list containing first [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.take(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    if (n >= size) return
    toList()
    if (n == 1) return listOf(this[0])
    var count = 0
    val list = ArrayList<UShort>(n)
    for (item in this) {
        list.add(item)
        if (++count == n) break
    }
    return list
}

* Returns a list containing last [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.takeLast(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<UInt>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

* Returns a list containing last [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun ULongArray.takeLast(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    if (n == 0) return emptyList()
    val size = size
    if (n >= size) return toList()
    if (n == 1) return listOf(this[size - 1])
    val list = ArrayList<ULong>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

* Returns a list containing last [n] elements.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.collections.Collections.Transformations.take

```

```

@sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size
- 1])\n    val list = ArrayList<UByte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return
list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<UShort>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo
0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    val list = ArrayList<UInt>()\n    for (item
in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    val list = ArrayList<ULong>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.takeWhile(predicate:
(UByte) -> Boolean): List<UByte> {\n    val list = ArrayList<UByte>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    val list = ArrayList<UShort>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/>\n *
Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/>\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/>\n * Reverses elements in the array in-
place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/>\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/>\n * Reverses elements of the array in the specified
range in-place.\n
*\n * @param fromIndex the start of the range (inclusive) to reverse.\n
*\n * @param toIndex the end
of the range (exclusive) to reverse.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex,
toIndex)\n}\n\n/>\n * Reverses elements of the array in the specified range in-place.\n
*\n * @param fromIndex
the start of the range (inclusive) to reverse.\n
*\n * @param toIndex the end of the range (exclusive) to reverse.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/>\n *
Reverses elements of the array in the specified range in-place.\n
*\n * @param fromIndex the start of the range
(inclusive) to reverse.\n
*\n * @param toIndex the end of the range (exclusive) to
reverse.\n
*\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n    storage.reverse(fromIndex, toIndex)\n}\n\n/>\n *
Reverses elements of the array in the specified range in-place.\n
*\n * @param fromIndex the start of the range
(inclusive) to reverse.\n
*\n * @param toIndex the end of the range (exclusive) to
reverse.\n
*\n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n
*\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit
{\n    storage.reverse(fromIndex, toIndex)\n}\n\n/>\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n    if
(isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/>\n * Returns a
list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.reversed(): List<ULong> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n
list.reverse()\n    return list\n}\n\n/>\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n
if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/>\n * Returns
a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.reversed():
List<UShort> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return
list\n}\n\n/>\n * Returns an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UIntArray.reversedArray(): UIntArray {
    return UIntArray(storage.reversedArray())
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reversedArray(): ULongArray {
    return ULongArray(storage.reversedArray())
}

Returns an array with elements of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.reversedArray(): UByteArray {
    return UByteArray(storage.reversedArray())
}

Returns an array with elements
of this array in reversed order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.reversedArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements in this array in-place.

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.shuffle(): Unit {
    shuffle(Random)
}

Randomly shuffles elements
in this array in-place using the specified [random] instance as the source of randomness.

See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray.shuffle(random: Random): Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.

See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray.shuffle(random: Random):
Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

Randomly shuffles elements in
this array in-place using the specified [random] instance as the source of randomness.

See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.shuffle(random: Random):
Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

Randomly shuffles elements in this array in-place using the specified
[random] instance as the source of randomness.

See:
https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates\_shuffle#The\_modern\_algorithm

@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.shuffle(random: Random):
Unit {
    for (i in lastIndex downTo 1) {
        val j = random.nextInt(i + 1)
        val copy = this[i]
        this[i] = this[j]
        this[j] = copy
    }
}

Sorts elements in the array in-place
descending according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts elements in the array in-place descending
according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun
ULongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts
elements in the array in-place descending according to their natural sort order.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts elements in the array in-place descending

```

according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n return copyOf().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n return copyOf().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n return copyOf().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns a list of all elements sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n return copyOf().apply { sort() }.asList()\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns an array with all elements of this array sorted descending according to their natural sort order.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/\*\*\n \* Returns a list of all elements sorted

descending according to their natural sort order.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*  
`@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.asUIntArray(): UIntArray {\n return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n return ULongArray(this)\n}\n\n/**\n * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are structurally equal to one another, i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic`

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infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}

/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UByteArray?.contentEquals(other: UByteArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
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/** Returns `true` if the two specified arrays are *structurally* equal to one another, i.e. contain the same number of the same elements in the same order.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public infix fun UShortArray?.contentEquals(other: UShortArray?): Boolean {
    return this?.storage.contentEquals(other?.storage)
}

/** Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
}

/** Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun ULongArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
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public fun UByteArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
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/** Returns a hash code based on the contents of this array as if it is [List].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray?.contentHashCode(): Int {
    return this?.storage.contentHashCode()
}

/** Returns a string representation of the contents of the specified array as if it is [List].
 */
@sample samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UIntArray?.contentToString(): String {
    return this?.joinToString(", ", "[", "]") ?: "null"
}

/** Returns a string representation of the contents of the specified array as if it is [List].
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@sample samples.collections.Arrays.ContentOperations.contentToString
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@sample samples.collections.Arrays.ContentOperations.contentToString
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray?.contentToString(): String {
    return this?.joinToString(", ", "[", "]") ?: "null"
}

/** Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset], or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}

/** Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
 */

```



destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n \* \n \* @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array
and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange
so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
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inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex:
Int = size): UByteArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n
return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n
* \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with
the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in
the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to
copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n
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of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *
\n * @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): UShortArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n

```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOf(): UIntArray {\n    return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is
a copy of the original
array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n

```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(): ULongArray {\n    return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOf(): UByteArray {\n    return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array

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which is a copy of the original array.

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\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
UShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array\n
which is a copy of the original array, resized to the given [newSize].\n
\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than\n
the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size\n
of the original array, the extra elements in the copy array are filled with zero values.\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
UIntArray.copyOfOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the\n
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original\n
array, the extra elements in the copy array are filled with zero values.\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic\n
inline fun ULongArray.copyOfOf(newSize: Int): ULongArray {\n    return\n
\n    ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,\n
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline\n
fun UByteArray.copyOfOf(newSize: Int): UByteArray {\n    return UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either\n
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize]\n
\n    is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater\n
than the size of the original array, the extra elements in the copy array are filled with zero values.\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
UShortArray.copyOfOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOfOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start\n
of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws\n
\n    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
UIntArray.copyOfOfRange(fromIndex:\n
\n    Int, toIndex: Int): UIntArray {\n    return UIntArray(storage.copyOfOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start\n
of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws\n
\n    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
ULongArray.copyOfOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return\n
\n    ULongArray(storage.copyOfOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the\n
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * \n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws\n
\n    IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of\n
this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
\n*\n@\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n\npublic inline fun\n
UByteArray.copyOfOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return\n
\n    UByteArray(storage.copyOfOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the

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specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex:
    Int, toIndex: Int): UShortArray {\n    return UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n    get() = storage.indices\n\n * Returns the range of valid indices for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n    get() = storage.indices\n\n * Returns the range of valid indices for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n    get() = storage.indices\n\n * Returns the range of valid indices for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n    get() = storage.indices\n\n * Returns the last valid index for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n    get() = storage.lastIndex\n\n * Returns the last valid index for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n    get() = storage.lastIndex\n\n * Returns the last valid index for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n    get() = storage.lastIndex\n\n * Returns the last valid index for the array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n    get() =

```



```

* Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n    if (size > 1)\n        sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n    if (size > 1)\n        sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortArray\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n    if (size > 1)\n        sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the\n * range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array\n * by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]\n * is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex:\n * Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex,\n * toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range\n * (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by\n * default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than\n * the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic\n * fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by\n * default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws\n * IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,\n * toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,\n * fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param\n * fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range\n * (exclusive) to sort, size of this array by default.\n * \n * @throws\n * IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if\n * [fromIndex] is greater than [toIndex].\n * \n * @sample\n * samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,\n * toIndex: Int = size): Unit {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    sortArray(this,\n * fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are\n * sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)\n * to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws\n * IndexOutOfBoundsException\n * if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,\n * toIndex: Int): Unit {\n    sort(fromIndex, toIndex)\n    reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of\n * the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort\n * order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range\n * (exclusive) to sort.\n * \n * @throws\n * IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is\n * greater than the size of this array.\n * @throws\n * IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:

```

```

Int, toIndex: Int): Unit {
    sort(fromIndex,
        toIndex)
    reverse(fromIndex, toIndex)
}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.
 * @param fromIndex the start of the range (inclusive) to sort.
 * @param toIndex the end of the range (exclusive) to sort.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}

/**
 * Sorts elements of the array in the specified range in-place.
 * The elements are sorted descending according to their natural sort order.
 * @param fromIndex the start of the range (inclusive) to sort.
 * @param toIndex the end of the range (exclusive) to sort.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
public fun UShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
    sort(fromIndex, toIndex)
    reverse(fromIndex, toIndex)
}

/**
 * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.toByteArray(): ByteArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.toIntArray(): IntArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.toLongArray(): LongArray {
    return storage.copyOf()
}

/**
 * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.toTypedArray(): Array<UInt> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.toTypedArray(): Array<UByte> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns a *typed* object array containing all of the elements of this primitive array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.toTypedArray(): Array<UShort> {
    return Array(size) { index -> this[index] }
}

/**
 * Returns an array of UByte containing all of the elements of this generic array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Array<out UByte>.toUByteArray(): UByteArray {
    return UByteArray(size) { index -> this[index] }
}

/**
 * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation
 * of the corresponding element of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ByteArray.toUByteArray(): UByteArray {
    return UByteArray(this.copyOf())
}

/**
 * Returns an array of

```

UInt containing all of the elements of this generic array.\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray
{\n    return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this
array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.toUIntArray(): UIntArray {\n    return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array
of ULong containing all of the elements of this generic array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray():
ULongArray {\n    return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.toULongArray(): ULongArray {\n    return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array
of UShort containing all of the elements of this generic array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray():
UShortArray {\n    return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a copy of this array where each element is an unsigned
reinterpretation\n * of the corresponding element of this array.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.toUShortArray(): UShortArray {\n    return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map]
where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to
each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n    val result = LinkedHashMap<UInt,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the
given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two
elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order
of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n    val result =
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n    val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample
samples.collections.Collections.Transformations.associateWith\n */\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector:

```

```

(UShort) -> V): Map<UShort, V> {\n    val result = LinkedHashMap<UShort,
V>(mapCapacity(size).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n *
where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If
any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable
map with key-value pairs for each element of the given array,\n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M
{\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in
the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n    for
(element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination:
M, valueSelector: (UShort) -> V): M {\n    for (element in this) {\n        destination.put(element,
valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R>
{\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample

```



```

samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),  

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

  results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

  results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

ULongArray.flatMapIndexed(transform:  

(index: Int, ULong) -> Iterable<R>): List<R> {\n  return flatMapIndexedTo(ArrayList<R>(),  

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being  

  invoked on each element\n * and its index in the original array.\n * \n * @sample  

samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  

UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from  

  results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *  

@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  

inline fun <R> UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n  return  

flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of  

  [transform] function being invoked on each element\n * and its index in the original array, to the given  

  [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  

MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->  

Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n  

    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its  

  index in the original array, to the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  

MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->  

Iterable<R>): C {\n  var index = 0\n  for (element in this) {\n    val list = transform(index++, element)\n  

    destination.addAll(list)\n  }\n  return destination\n}\n\n/**\n * Appends all elements yielded from results of  

  [transform] function being invoked on each element\n * and its index in the original array, to the given  

  [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

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inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each element and its index in the original array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) -> Iterable<R>): C {\n    var index = 0\n    for (element in this) {\n        val list = transform(index++, element)\n        destination.addAll(list)\n    }\n
```

```
    return destination\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n * Groups elements of the original array by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * @sample samples.collections.Collections.Transformations.groupBy\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
```

```

ByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(),
  keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map
preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration
order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K,
List<V>> {\n  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of
the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns
a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves
the entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with
a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n
for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {

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ArrayList<UInt>() } \n    list.add(element)\n    } \n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M,
keySelector: (ULong) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<ULong>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key)
{ ArrayList<UByte>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) {
ArrayList<UShort>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the
given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated
with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K,
valueTransform: (UInt) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with
a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K,
valueTransform: (ULong) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K,
valueTransform: (UByte) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the

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original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M,
keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n    for (element in this) {\n        val key =
keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.map(transform: (UByte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {\n    return
mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element and its index in the original array.\n * @param [transform] function that
takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the

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transform applied to the element.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element  
itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return  
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an  
element and the element itself\n * and returns the result of the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UByteArray.mapIndexedTo(destination:  
C, transform: (index: Int, UByte) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Applies the given [transform]  
function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of  
the transform applied to the element.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return  
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and  
appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given  
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n    for (item in  
this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform]  
function to each element of the original array\n * and appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UByteArray.mapTo(destination:  
C, transform: (UByte) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return  
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and  
appends the results to the given [destination].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :  
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n    for (item in  
this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps  
each element of the original array\n * into an [IndexedValue] containing the index of that element and the element  
itself.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex():  
Iterable<IndexedValue<UInt>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]  
that wraps each element of the  
original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex():  
Iterable<IndexedValue<ULong>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
```

that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex():  
Iterable<IndexedValue<UByte>> {\n    return IndexingIterable { iterator() }\n}
```

Returns a lazy [Iterable] that wraps each element of the original array into an [IndexedValue] containing the index of that element and the element itself.

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():  
Iterable<IndexedValue<UShort>> {\n    return IndexingIterable { iterator() }\n}
```

Returns true if all elements

match the given [predicate]. Note that if the array contains no elements, the function returns true because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

@sample samples.collections.Collections.Aggregates.all

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return  
false\n    return true\n}
```

Returns true if all elements match the given [predicate]. Note that if the array contains no elements, the function returns true because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

@sample samples.collections.Collections.Aggregates.all

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return  
false\n    return true\n}
```

Returns true if all elements match the given [predicate]. Note that if the array contains no elements, the function returns true because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

@sample samples.collections.Collections.Aggregates.all

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return  
false\n    return true\n}
```

Returns true if all elements match the given [predicate]. Note that if the array contains no elements, the function returns true because there are no elements in it that do not match the predicate. See a more detailed explanation of this logic concept in ["Vacuous truth"](https://en.wikipedia.org/wiki/Vacuous\_truth) article.

@sample samples.collections.Collections.Aggregates.all

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return  
false\n    return true\n}
```

Returns true if array has at least one element.

@sample samples.collections.Collections.Aggregates.any

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.any(): Boolean {\n    return storage.any()\n}
```

Returns true if array has at least one element.

@sample samples.collections.Collections.Aggregates.any

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.any(): Boolean {\n    return storage.any()\n}
```

Returns true if array has at least one element.

@sample samples.collections.Collections.Aggregates.any

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.any(): Boolean {\n    return storage.any()\n}
```

Returns true if array has at least one element.

@sample samples.collections.Collections.Aggregates.any

```
@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.any(): Boolean {\n    return storage.any()\n}
```

Returns true if at least one element matches the given [predicate].

@sample samples.collections.Collections.Aggregates.anyWithPredicate

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n  for (element in this) if (predicate(element))
return true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return
true\n  return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n  var count = 0\n  for (element
in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the
given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.count(predicate: (UByte) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified
[initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n  var accumulator = initial\n  for (element in
this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value

```



starting with [initial] value and applying [operation] from left to right  
\* to current accumulator value and each element.  
\* Returns the specified [initial] value if the array is empty.  
\* @param [operation] function that takes current

accumulator value and an element, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right  
 * to current accumulator value and each element with its index in the original array.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation] function that takes the index of an element, current accumulator value  
 * and the element itself, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R):  
R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right  
 * to current accumulator value and each element with its index in the original array.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation] function that takes the index of an element, current accumulator value  
 * and the element itself, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right  
 * to current accumulator value and each element with its index in the original array.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation] function that takes the index of an element, current accumulator value  
 * and the element itself, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right  
 * to current accumulator value and each element with its index in the original array.  
 * Returns the specified [initial] value if the array is empty.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left  
 * to each element and current accumulator value.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left  
 * to each element and current accumulator value.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>  
UIntArray.foldRight(initial:  
R, operation: (UInt, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left  
 * to each element and current accumulator value.  
 * Returns the specified [initial] value if the array is empty.  
 * @param [operation]
```

function that takes an element and current accumulator value, and calculates the next accumulator value.

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n**\n * Accumulates value starting with [initial] value
and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value, and calculates the next accumulator value.

```

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var
accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
return accumulator\n}\n\n\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right
to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is
empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the
next accumulator
value.\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.

```

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n
var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index,
get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n\*\*\n \* Accumulates value starting with
[initial] value and applying [operation] from right to left\n \* to each element with its index in the original array and
current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param
[operation] function that takes the index of an element, the element itself\n \* and current accumulator value, and
calculates the next accumulator value.

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n  var index =
lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n
return accumulator\n}\n\n**\n * Accumulates value starting with [initial] value and applying [operation] from
right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns
the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.

```

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n
return accumulator\n}\n\n\*\*\n \* Accumulates value starting with [initial]
value and applying [operation] from right to left\n \* to each element with its index in the
original array and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \*
\n \* @param [operation] function that takes the index of an element, the element itself\n \* and current accumulator
value, and calculates the next accumulator value.

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n  var index =

```

```

lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index),
accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each
element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n */\n@param [action]
function that takes the index of an element and the element itself\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n    var index = 0\n    for (item in
this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index
with the element.\n */\n@param [action] function that takes the index of an element and the element itself\n */\nand performs the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n */\n@param [action] function that takes the index of an element and the element itself\n */\nand performs
the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n */\n@param [action] function that takes the index of an element and the element itself\n */\nand performs
the action on the element.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Returns the largest element.\n */\n */\n@throws NoSuchElementException if the
array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.max(): UInt {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element.\n */\n */\n@throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
ULongArray.max(): ULong {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the
largest element.\n */\n */\n@throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UByteArray.max(): UByte {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n */

```

```

* Returns the largest element.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxOrThrow-
U")\n@\n@ExperimentalUnsignedTypes\n@\n@Suppress("CONFLICTING_OVERLOADS")\n\npublic fun
UShortArray.max(): UShort {\n    if (isEmpty()) throw NoSuchElementException()\n    var max = this[0]\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is
empty.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n
*\n@\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\n@\n@Suppress("CONFLICTING_OVERLOADS
")\n\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt {\n    if (isEmpty())
throw NoSuchElementException()\n    var maxElem = this[0]\n
    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n
    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n
            maxElem =
e\n            maxElem = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the
largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.maxBy\n
*\n@\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\n@\n@Suppress("CONFLICTING_OVERLOADS
")\n\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n           
maxElem = e\n            maxElem = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element
yielding the largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n *
\n * @sample samples.collections.Collections.Aggregates.maxBy\n
*\n@\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\n@\n@Suppress("CONFLICTING_OVERLOADS
")\n\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n            maxElem = e\n
            maxElem = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the
largest value of the given function.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n *
@sample samples.collections.Collections.Aggregates.maxBy\n
*\n@\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxByOrThrow-
U")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\n@\n@Suppress("CONFLICTING_OVERLOADS
")\n\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort {\n    if
(isEmpty()) throw NoSuchElementException()\n    var maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if
(lastIndex == 0) return maxElem\n    var maxElem = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e =
this[i]\n        val v = selector(e)\n        if (maxElem < v) {\n            maxElem = e\n           
maxElem = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@\n@SinceKotlin("1.4")\n@\n@ExperimentalUnsignedTypes\n@\n@kotlin.internal.InlineOnly\n\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxElem =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxElem < v)
{\n            maxElem = e\n            maxElem = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first

```

element yielding the largest value of the given function or `null` if there are no elements.

```

samples.collections.Collections.Aggregates.maxByOrNull
*/@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

```

\* Returns the first element yielding the largest value of the given function or `null` if there are no elements.

```

samples.collections.Collections.Aggregates.maxByOrNull
*/@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

```

\* Returns the first element yielding the largest value of the given function or `null` if there are no elements.

```

samples.collections.Collections.Aggregates.maxByOrNull
*/@SinceKotlin("1.4")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    }
    return maxElem
}

```

\* Returns the largest value among all values produced by [selector] function applied to each element in the array.

If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

@throws NoSuchElementException if the array is empty.

```

*/@SinceKotlin("1.4")@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by [selector] function applied to each element in the array.

If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

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```

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    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by [selector] function applied to each element in the array.

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```

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    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}

```

\* Returns the largest value among all values produced by [selector] function applied to each element in the array.

If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.

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```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Double): Double {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        maxValue = maxOf(maxValue,
v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function
is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue =
maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.maxOf(selector: (UByte) -> Float): Float {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n    return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n
    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        maxValue = maxOf(maxValue, v)\n    }\n
    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (maxValue < v) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the
array.\n * \n * @throws NoSuchElementException
if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

```

```

Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function
* applied to each element in the array.
* @throws NoSuchElementException if the array is empty.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function
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*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {
    if (isEmpty()) throw NoSuchElementException()
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        if (maxValue < v) {
            maxValue = v
        }
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
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    var maxValue = selector(this[0])
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        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
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Returns the largest value among all values produced by [selector] function
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* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.
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    for (i in 1..lastIndex) {
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        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
Returns the largest value among all values produced by [selector] function
* applied to each element in the array or `null` if there are no elements.
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*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {
    if (isEmpty()) return null
    var maxValue = selector(this[0])
    for (i in 1..lastIndex) {
        val v = selector(this[i])
        maxValue = maxOf(maxValue, v)
    }
    return maxValue
}
Returns the largest value among all values produced by [selector]

```

function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOrNull(selector: (UInt) -> Float): Float? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n

```

```

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inline fun ULongArray.maxOrNull(selector: (ULong) -> Float): Float? {\n  if (isEmpty()) return null\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue =
maxOf(maxValue, v)\n  }\n  return maxValue\n}\n\n**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

```

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maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function
is `NaN`, the returned result is `NaN`.\n

```

```

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UShortArray.maxOrNull(selector: (UShort) -> Float): Float? {\n  if (isEmpty()) return null\n  var maxValue =
selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    maxValue = maxOf(maxValue, v)\n  }\n  return
maxValue\n}\n\n**\n * Returns the largest value among all values produced by [selector] function\n *
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```

```

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Comparable<R>> UIntArray.maxOrNull(selector: (UInt) -> R): R? {\n  if (isEmpty()) return null\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n
maxValue = v\n    }\n  }\n  return maxValue\n}\n\n**\n * Returns the largest value among all values
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```

```

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Comparable<R>> ULongArray.maxOrNull(selector: (ULong) -> R): R? {\n  if (isEmpty()) return
null\n  var maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if
(maxValue < v) {\n      maxValue = v\n    }\n  }\n  return maxValue\n}\n\n**\n * Returns the largest value
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elements.\n

```

```

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Comparable<R>> UByteArray.maxOrNull(selector: (UByte) -> R): R? {\n  if (isEmpty()) return null\n  var
maxValue = selector(this[0])\n  for (i in 1..lastIndex) {\n    val v = selector(this[i])\n    if (maxValue < v) {\n

```



```

    maxValue = v\n    }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in
the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (maxValue < v) {\n
            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n *
*\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWith(comparator:
Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var
maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
        val v = selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
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selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if
(isEmpty()) return null\n    var maxValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(maxValue, v) < 0) {\n            maxValue = v\n        }\n    }\n    return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var max = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(max, v) < 0) {\n max = v\n }\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxOrNull(): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxOrNull(): UByte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxOrNull(): UShort? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the first element having the largest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun
UIntArray.maxWith(comparator: Comparator<in UInt>): UInt {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n *
Returns the first element having the largest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic
fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong {\n if (isEmpty()) throw
NoSuchElementException()\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n *
Returns the first element having the largest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("maxWithOrThrow-
U")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun

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```

ByteArray.maxWith(comparator: Comparator<in UByte>): UByte {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator].
// @throws NoSuchElementException if the array is empty.
// @SinceKotlin("1.7")
// @kotlin.jvm.JvmName("maxWithOrThrow-U")
// @ExperimentalUnsignedTypes
// @Suppress("CONFLICTING_OVERLOADS")
public fun

UShortArray.maxWith(comparator: Comparator<in UShort>): UShort {
    if (isEmpty()) throw NoSuchElementException()
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
// @SinceKotlin("1.4")
// @ExperimentalUnsignedTypes
public fun

UIntArray.maxWithOrNull(comparator: Comparator<in UInt>): UInt? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
// @SinceKotlin("1.4")
// @ExperimentalUnsignedTypes
public fun

ULongArray.maxWithOrNull(comparator: Comparator<in ULong>): ULong? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
// @SinceKotlin("1.4")
// @ExperimentalUnsignedTypes
public fun

UByteArray.maxWithOrNull(comparator: Comparator<in UByte>): UByte? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
// @SinceKotlin("1.4")
// @ExperimentalUnsignedTypes
public fun

UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}
// Returns the smallest element.
// @throws NoSuchElementException if the array is empty.
// @SinceKotlin("1.7")
// @kotlin.jvm.JvmName("minOrThrow-U")
// @ExperimentalUnsignedTypes
// @Suppress("CONFLICTING_OVERLOADS")
public fun

UIntArray.min(): UInt {
    if (isEmpty()) throw NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
// Returns the smallest element.
// @throws NoSuchElementException if the array is empty.
// @SinceKotlin("1.7")
// @kotlin.jvm.JvmName("minOrThrow-U")
// @ExperimentalUnsignedTypes
// @Suppress("CONFLICTING_OVERLOADS")
public fun

ULongArray.min(): ULong {
    if (isEmpty()) throw NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
// Returns the smallest element.
// @throws NoSuchElementException if the array is empty.
// @SinceKotlin("1.7")
// @kotlin.jvm.JvmName("minOrThrow-U")
// @ExperimentalUnsignedTypes
// @Suppress("CONFLICTING_OVERLOADS")
public fun

UByteArray.min(): UByte {
    if (isEmpty()) throw NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
// Returns the smallest element.
// @throws NoSuchElementException if the array is empty.
// @SinceKotlin("1.7")
// @kotlin.jvm.JvmName("minOrThrow-U")
// @ExperimentalUnsignedTypes
// @Suppress("CONFLICTING_OVERLOADS")
public fun

UShortArray.min(): UShort {
    if (isEmpty()) throw NoSuchElementException()
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (min > e) min = e
    }
    return min
}
// Returns the first element yielding the smallest value of the given function.
// @throws NoSuchElementException if the array is empty.
// @sample

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samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt {\n if (isEmpty())
throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex ==
0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val
v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function.\n *
\n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function.\n *
\n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte {\n if
(isEmpty()) throw NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if
(lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e =
this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n
}\n return minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function.\n *
\n * @throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minByOrThrow-
U")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n@Suppress("CONFLICTING_OVERLOADS
")\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort {\n if (isEmpty()) throw
NoSuchElementException()\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0)
return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v =
selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R):
UInt? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex
== 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n
val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return
minElem\n}\n\n**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =

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selector(minElem)\n for (i in 1..lastIndex) {\n     val e = this[i]\n     val v = selector(e)\n     if (minValue > v) {\n         minElem = e\n         minValue = v\n     }\n }\n return
minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n     val e = this[i]\n     val v = selector(e)\n     if (minValue > v)
{\n         minElem = e\n         minValue = v\n     }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there
are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n     val e = this[i]\n     val v = selector(e)\n     if (minValue > v)
{\n         minElem = e\n         minValue = v\n     }\n }\n return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v =
selector(this[i])\n     minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOf(selector: (ULong) -> Double): Double {\n if (isEmpty())
throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v =
selector(this[i])\n     minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n
* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n     val v = selector(this[i])\n     minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced

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by [selector] function\n \* applied to each element in the array.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n \* \n \* @throws NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.minOf(selector: (ULong) -> Float): Float {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n    var
minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n
minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is
empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Float): Float {\n    if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue =
minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOf(selector:
(ULong) -> R): R {\n    if (isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n
for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n
        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *
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*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
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*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n
}\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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[selector] function is `NaN`, the returned result is `NaN`.\n
*\n*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n * If any of

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i\n    in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n * is `NaN`, the returned result is `NaN`.\n */
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if\n * there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n * `NaN`.\n */
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        minValue = minOf(minValue, v)\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n */
```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> UIntArray.minOfOrNull(selector:\n(UInt) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to\n * each element in the array or `null` if there are no elements.\n */
```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>> ULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n    if (isEmpty()) return null\n    var\n    minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value among all values\n * produced\n * by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */
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```

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :\nComparable<R>>\nUShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var minValue =\n    selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (minValue > v) {\n
```



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minValue = v\n    }\n    }\n    return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue,
v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
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function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
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function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n    if (isEmpty()) throw
NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =
selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n    if
(isEmpty()) throw NoSuchElementException()\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n
val v = selector(this[i])\n    if (comparator.compare(minValue, v) > 0) {\n        minValue = v\n    }\n    }\n    return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if (isEmpty()) return
null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n    if (isEmpty())
return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if
(comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n/**\n *
Returns

```

the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n    if (isEmpty())\n        return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v = selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return minValue\n}\n\n * Returns the smallest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun <R> UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n    if (isEmpty()) return null\n    var minValue = selector(this[0])\n    for (i in 1..lastIndex) {\n        val v =\n        selector(this[i])\n        if (comparator.compare(minValue, v) > 0) {\n            minValue = v\n        }\n    }\n    return\n    minValue\n}\n\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min =\n        e\n    }\n    return min\n}\n\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull():\n    ULong? {\n        if (isEmpty()) return null\n        var min = this[0]\n        for (i in 1..lastIndex) {\n            val e = this[i]\n            if (min > e) min = e\n        }\n        return min\n    }\n\n * Returns the smallest element or `null` if there are no elements.
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull():\n    UByte? {\n        if (isEmpty()) return null\n        var min = this[0]\n        for (i in 1..lastIndex) {\n            val e = this[i]\n            if (min > e) min = e\n        }\n        return min\n    }\n\n * Returns the smallest element or `null` if there are no elements.\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull():\n    UShort? {\n        if (isEmpty()) return null\n        var min = this[0]\n        for (i in 1..lastIndex) {\n            val e = this[i]\n            if (min > e) min = e\n        }\n        return min\n    }\n\n * Returns the first element having the smallest value according to the provided [comparator].\n * @throws NoSuchElementException
```

```
if the array is empty.\n*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-\nU")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun\nUIntArray.minWith(comparator: Comparator<in UInt>): UInt {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n * Returns the first element having the smallest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-\nU")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun\nULongArray.minWith(comparator: Comparator<in ULong>): ULong {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e)\n        > 0) min = e\n    }\n    return min\n}\n\n * Returns the first element having the smallest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.
```

```
*\n@SinceKotlin("1.7")\n@kotlin.jvm.JvmName("minWithOrThrow-\nU")\n@ExperimentalUnsignedTypes\n@Suppress("CONFLICTING_OVERLOADS")\npublic fun\nUByteArray.minWith(comparator: Comparator<in UByte>): UByte {\n    if (isEmpty()) throw\n    NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n * Returns the first element having the smallest value according to the provided [comparator].\n * @throws NoSuchElementException if the array is empty.
```

```

U\)\n@ExperimentalUnsignedTypes\n@Suppress(\`CONFLICTING_OVERLOADS\`)\npublic fun
UShortArray.minWith(comparator: Comparator<in UShort>): UShort
    {\n    if (isEmpty()) throw NoSuchElementException()\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e
= this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n
return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator: Comparator<in
UByte>): UByte? {\n    if (isEmpty()) return null\n    var
min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n
}\n    return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided
[comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no
elements.\n
*\n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n
*\n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n
*\n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n
*\n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n
*\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n
*\n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true`
if no elements match the given [predicate].\n
*\n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n
*\n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt)
-> Unit): UIntArray {\n    return apply { for (element in this) action(element) }\n}\n\n**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n    return apply { for (element in this)
action(element) }\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {\n    return apply { for (element in this)
action(element) }\n}\n\n**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n    return apply
{ for (element in this) action(element) }\n}\n\n**\n * Performs the given [action] on each element, providing
sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n    return apply {
forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray
{\n    return apply { forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing
sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that
takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n    return apply {
forEachIndexed(action) }\n}\n\n**\n * Performs the given [action] on each element, providing sequential index
with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an
element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit):
UShortArray {\n    return apply { forEachIndexed(action) }\n}\n\n**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n    if (isEmpty())\n        throw
UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = this[0]\n    for (index in
1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n    }\n    return accumulator\n}\n\n**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its

```

receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in
    1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in
    1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in
    1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in
    1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index
    in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return
    accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an

exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty
```

```
array can't be reduced.")\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
        operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting  
with the first element and applying [operation] from left to right  
to current accumulator value and each element  
with its index in the original array.\n * Throws an exception if this array is empty. If the array can be empty in  
an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,  
 * and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort):
```

```
UShort {\n    if (isEmpty())\n        throw UnsupportedOperationException("Empty array can't be reduced.")\n    var  
    accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator,  
        this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and  
applying [operation] from left to right  
to current accumulator value and each element with its index in the  
original array.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes the index  
of an element, current accumulator value and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n    if (isEmpty())\n        return null\n
```

```
    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(index, accumulator,  
        this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and  
applying [operation] from left to right  
to current accumulator value and each element with its index in the  
original array.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes the index  
of an element, current accumulator value and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n    if  
(isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
        operation(index, accumulator,
```

```
        this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and  
applying [operation] from left to right  
to current accumulator value and each element with its index in the  
original array.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes the index  
of an element, current accumulator value and the element itself, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.reduceOrNull
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n    if  
(isEmpty())\n        return null\n    var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator =  
        operation(index, accumulator, this[index])\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting  
with the first element
```

```
and applying [operation] from left to right  
to current accumulator value and each element with its index in the  
original array.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes the index
```

of an element, current accumulator value and the element itself,\n \* and calculates the next accumulator value.\n \* \n

```

 * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
 * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
 UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n if
 (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
 operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
 with the first element and applying [operation] from left to right\n * to current accumulator value and each
 element.\n * \n * Returns
 `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an
 element,\n * and calculates the next accumulator value.\n * \n * @sample
 samples.collections.Collections.Aggregates.reduceOrNull\n
 * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
 @kotlin.internal.InlineOnly\n public inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt?
 {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n
 accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value
 starting with the first element and applying [operation] from left to right\n * to current accumulator value and each
 element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
 accumulator value and an element,\n * and calculates the next accumulator
 value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
 * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
 @kotlin.internal.InlineOnly\n public inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) ->
 ULong): ULong? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex)
 {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates
 value starting with the first element and applying [operation] from left to right\n * to current accumulator value and
 each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current
 accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample
 samples.collections.Collections.Aggregates.reduceOrNull\n
 * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
 @kotlin.internal.InlineOnly\n public inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {\n if (isEmpty())\n
 return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
 operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
 first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
 Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
 an element,\n * and calculates the next accumulator value.\n * \n * @sample
 samples.collections.Collections.Aggregates.reduceOrNull\n
 * \n @SinceKotlin("1.4")\n @ExperimentalUnsignedTypes\n @WasExperimental(ExperimentalStdlibApi::class)\n
 @kotlin.internal.InlineOnly\n public inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) ->
 UShort): UShort? {\n if
 (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
 operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
 last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
 Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
 [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
 takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
 samples.collections.Collections.Aggregates.reduceRight\n
 * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
 UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0)

```

```

throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n  var index = lastIndex\n  if (index
< 0) throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty
array can't be reduced.")\n  var accumulator = get(index--)\n  while (index >= 0) {\n    accumulator =
operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt,
acc: UInt) -> UInt): UInt {\n  var index = lastIndex\n  if (index < 0) throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n  while
(index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]

```



```

function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n
var index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n
var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n
* \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes
the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes the index of an element,
the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with

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its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n var
index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort):
UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index
>= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation:
(UInt, acc: UInt) -> UInt): UInt? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element
and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function
that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->

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UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold\n \*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample

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samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n  if (isEmpty())\n  return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from\n * left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]\n * value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would\n * affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,\n * current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n  if\n (isEmpty()) return listOf(initial)\n\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for (index in indices)\n {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from\n * left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial]\n * value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would\n * affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,\n * current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n <R> UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n  if\n (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =\n initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each element, its index in the original array and\n * current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function\n * should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n  if\n (isEmpty()) return listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =\n initial\n  for (index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation\n * values generated by applying [operation] from left to right\n * to each element and current accumulator value that\n * starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be\n * mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that\n * takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n  if (isEmpty()) return\n emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<UInt>(size).apply { add(accumulator) }\n  for\n (index in 1 until size) {\n    accumulator = operation(accumulator, this[index])\n    result.add(accumulator)\n  }\n}

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}  
return result  
Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function

that takes current accumulator value and an element, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<ULong>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value

in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with the first element of this array. Note that `acc` value passed to [operation] function should

not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. @sample

samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n    if (isEmpty()) return  
emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UShort>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the

first element of this array. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.runningReduce

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n    if (isEmpty())  
return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UInt>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

Returns a list containing successive accumulation values generated

by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array. Note that `acc` value passed to [operation] function

should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the

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next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n  if
(isEmpty()) return emptyList()\n  var accumulator = this[0]\n  val result = ArrayList<ULong>(size).apply {
add(accumulator) }\n  for (index in 1 until size) {\n    accumulator = operation(index, accumulator,
this[index])\n    result.add(accumulator)\n  }\n  return result\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original
array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value
passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting
list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the
element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduceIndexed(operation:
(index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n  if (isEmpty()) return emptyList()\n  var
accumulator = this[0]\n  val result = ArrayList<UShort>(size).apply { add(accumulator) }\n  for (index in 1 until
size) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n  }\n  return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic
inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n  return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note
that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous
value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element,
and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R):
List<R> {\n  return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current

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accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample  
samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n    return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n    return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
```

```

R, UShort) -> R): List<R> {
    return runningFoldIndexed(initial, operation)
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {
    var sum: UInt = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
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    for (element in this) {
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    }
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 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {
    var sum: UInt = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
 * @SinceKotlin("1.3")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
 * @DeprecatedSinceKotlin(warningSince = "1.5")
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 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
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 * public inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
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 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array.
 * @SinceKotlin("1.4")
 * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)
 * @OverloadResolutionByLambdaReturnType
 * @Suppress("INAPPLICABLE_JVM_NAME")
 * @kotlin.jvm.JvmName("sumOfDouble")
 * @ExperimentalUnsignedTypes
 * @kotlin.internal.InlineOnly
 * public inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
    var sum: Double = 0.toDouble()
}

```



```

    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
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@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
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@kotlin.jvm.JvmName("sumOfDouble")
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public inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
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/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
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@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {
    var sum: Double = 0.toDouble()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {
    var sum: Int = 0.toInt()
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/** Returns the sum of all values produced by [selector] function applied to each element in the array. */
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfLong")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Long): Long {
    var sum: Long = 0.toLong()
    for (element in this) {
        sum += selector(element)
    }
}

```

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return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:
(ULong) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
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ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:
(UByte) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")
\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {\n    var sum: Long = 0.toLong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element
in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UByteArray.sumOf(selector: (UByte) ->
UInt): UInt {\n    var sum: UInt = 0.toUInt()\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0.toUInt()\n
for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")

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)\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n    var sum: ULong = 0.toULong()\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list
of values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
*\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample

```

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samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\nUByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size,\n    other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array\n    with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned\n    list has length of the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>\nUShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size,\n    other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with\n    the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:\nIterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs\n    built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of\n    the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:\nIterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs\n    built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of\n    the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic\ninfix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2\n    }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same\n    index.\n * The returned list has length of the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:\nIterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of\n    values built from the elements of `this` array and the [other] collection with the same index\n * using the provided\n    [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\ninline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize =\n    size\n    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element\n    in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return\n    list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the\n    same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has\n    length of the shortest collection.\n * \n * @sample\nsamples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>

```

```

ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n *\n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n *\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n *\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>

```

```

ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/** Returns a list of values built from the elements of `this` array and the
    [other] array with the same index
    * using the provided [transform] function applied to each pair of elements.
    * The returned list has length of the shortest array.
    * @sample
    samples.collections.Iterables.Operations.zipIterableWithTransform

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/** Returns a list of values built from the elements of `this` array and the [other] array
    with the same index
    * using the provided [transform] function applied to each pair of elements.
    * The returned list has length of the shortest array.
    * @sample
    samples.collections.Iterables.Operations.zipIterableWithTransform

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

/** Returns the sum of all elements in the array.
    * @kotlin.jvm.JvmName("sumOfUInt")
    * @SinceKotlin("1.5")
    * @WasExperimental(ExperimentalUnsignedTypes::class)
    * public fun Array<out UInt>.sum(): UInt {
    *     var sum: UInt = 0u
    *     for (element in this) {
    *         sum += element
    *     }
    *     return sum
    * }

/** Returns the sum of all elements in the array.
    * @kotlin.jvm.JvmName("sumOfULong")
    * @SinceKotlin("1.5")
    * @WasExperimental(ExperimentalUnsignedTypes::class)
    * public fun Array<out ULong>.sum(): ULong {
    *     var sum: ULong = 0uL
    *     for (element in this) {
    *         sum += element
    *     }
    *     return sum
    * }

/** Returns the sum of all elements in the array.
    * @kotlin.jvm.JvmName("sumOfUByte")
    * @SinceKotlin("1.5")
    * @WasExperimental(ExperimentalUnsignedTypes::class)
    * public fun Array<out UByte>.sum(): UInt {
    *     var sum: UInt = 0u
    *     for (element in this) {
    *         sum += element
    *     }
    *     return sum
    * }

/** Returns the sum of all elements in the array.
    * @kotlin.jvm.JvmName("sumOfUShort")
    * @SinceKotlin("1.5")
    * @WasExperimental(ExperimentalUnsignedTypes::class)
    * public fun Array<out UShort>.sum(): UInt {
    *     var sum: UInt = 0u
    *     for (element in this) {
    *         sum += element
    *     }
    *     return sum
    * }

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.sum(): UInt {
    return storage.sum().toUInt()
}

/** Returns the sum of all elements in the array.
    * @SinceKotlin("1.3")
    * @ExperimentalUnsignedTypes
    * @kotlin.internal.InlineOnly
    * public inline fun
    ULongArray.sum(): ULong {
    *     return storage.sum().toULong()
    * }

/** Returns the sum of all elements in the array.
    * @SinceKotlin("1.3")
    * @ExperimentalUnsignedTypes
    * @kotlin.internal.InlineOnly
    * public inline fun
    UByteArray.sum(): UInt {
    *     return sumOf { it.toUInt() }
    * }

/** Returns the sum of all elements in the array.
    * @SinceKotlin("1.3")
    * @ExperimentalUnsignedTypes
    * @kotlin.internal.InlineOnly
    * public inline fun
    UShortArray.sum(): UInt {
    *     return sumOf { it.toUInt() }
    * }

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    can be found in the license/LICENSE.txt file.

*/
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")
package
kotlin.collections

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import
kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/** Returns an array of
    UByte containing all of the elements of this collection.

*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UByte>.toUByteArray():
UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this) {
        result[index++] =
element
    }
    return result
}

/** Returns an array of UInt containing all of the elements of this collection.

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray
{\n    val result = UIntArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray():
ULongArray {\n    val result = ULongArray(size)\n
    var index = 0\n    for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an
array of UShort containing all of the elements of this collection.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray():
UShortArray {\n    val result = UShortArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<ULong>.sum(): ULong {\n
    var sum: ULong = 0uL\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n */
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UByte>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
    sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UShort>.sum(): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n
    sum += element\n    }\n    return sum\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b:
UInt): UInt {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong,
b: ULong): ULong {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte,
b: UByte): UByte {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun maxOf(a: UShort, b: UShort): UShort {\n    return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three
values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
public inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n */
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n

```

```

npublic
inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n  return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UInt, vararg other: UInt): UInt {\n  var max = a\n  for (e in other) max = maxOf(max, e)\n  return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong):
ULong {\n  var max = a\n  for (e in other) max = maxOf(max, e)\n  return max\n}\n\n/**\n * Returns the greater
of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte,
vararg other: UByte): UByte {\n  var max = a\n  for (e in other) max = maxOf(max, e)\n  return max\n}\n\n/**\n
* Returns the greater of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UShort, vararg
other: UShort): UShort {\n  var max = a\n  for (e in other) max = maxOf(max, e)\n  return max\n}\n\n/**\n *
Returns the smaller of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b:
UInt): UInt {\n  return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong,
b: ULong): ULong {\n  return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte,
b: UByte): UByte {\n  return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort,
b: UShort): UShort {\n  return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic
inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n  return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the
smaller of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n  return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n  return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n  return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller
of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt,
vararg other: UInt): UInt {\n  var min = a\n  for (e in other) min = minOf(min, e)\n  return min\n}\n\n/**\n *
Returns the smaller of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: ULong, vararg other: ULong): ULong {\n  var min = a\n  for (e in other) min = minOf(min, e)\n  return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, vararg other: UByte):
UByte {\n  var min = a\n  for (e in other) min = minOf(min, e)\n  return min\n}\n\n/**\n * Returns the smaller
of the given values.\n */\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, vararg
other: UShort): UShort {\n  var min = a\n  for (e in other) min = minOf(min, e)\n  return min\n}\n\n"/\n *
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Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:

```



```

https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.*\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the progression is empty.\n */\n@SinceKotlin("1.7")\npublic fun UIntProgression.first(): UInt {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element.\n * \n * @throws NoSuchElementException if the progression is empty.\n */\n@SinceKotlin("1.7")\npublic fun ULongProgression.first(): ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression is empty.\n */\n@SinceKotlin("1.7")\npublic fun UIntProgression.firstOrNull(): UInt? {\n    return if (isEmpty()) null else this.first\n}\n\n/**\n * Returns the first element, or `null` if the progression is empty.\n */\n@SinceKotlin("1.7")\npublic fun ULongProgression.firstOrNull(): ULong? {\n    return if (isEmpty()) null else this.first\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin("1.7")\npublic fun UIntProgression.last(): UInt {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.last\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin("1.7")\npublic fun ULongProgression.last(): ULong {\n    if (isEmpty())\n        throw NoSuchElementException("Progression $this is empty.")\n    return this.last\n}\n\n/**\n * Returns the last element, or `null` if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin("1.7")\npublic fun UIntProgression.lastOrNull(): UInt? {\n    return if (isEmpty()) null else this.last\n}\n\n/**\n * Returns the last element, or `null` if the progression is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin("1.7")\npublic fun ULongProgression.lastOrNull(): ULong? {\n    return if (isEmpty()) null else this.last\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UIntRange.random(random: Random): UInt {\n    try {\n        return random.nextUInt(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULongRange.random(random: Random): ULong {\n    try {\n        return random.nextULong(this)\n    } catch (e: IllegalArgumentException) {\n        throw NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull(): UInt? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class),

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ExperimentalUnsignedTypes::class)
public fun UIntRange.randomOrNull(random: Random): UInt? {
    if (isEmpty())
        return null
    return random.nextUInt(this)
}
/**
 * Returns a random element from this
 * range using the specified source of randomness, or `null` if this range is empty.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)
public fun ULongRange.randomOrNull(random: Random): ULong? {
    if (isEmpty())
        return null
    return random.nextULong(this)
}
/**
 * Returns `true` if this range contains
 * the specified [element].
 *
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline operator fun UIntRange.contains(element: UInt?): Boolean {
    return element != null &&
        contains(element)
}
/**
 * Returns `true` if this
 * range contains the specified [element].
 *
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline operator fun ULongRange.contains(element: ULong?): Boolean {
    return element != null &&
        contains(element)
}
/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator fun
UIntRange.contains(value: UByte): Boolean {
    return contains(value.toInt())
}
/**
 * Checks if the
 * specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator fun
ULongRange.contains(value: UByte): Boolean {
    return contains(value.toULong())
}
/**
 * Checks if the
 * specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator
fun ULongRange.contains(value: UInt): Boolean {
    return contains(value.toULong())
}
/**
 * Checks if
 * the specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator fun
UIntRange.contains(value: ULong): Boolean {
    return (value shr UInt.SIZE_BITS) == 0uL &&
        contains(value.toInt())
}
/**
 * Checks if the specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator fun
UIntRange.contains(value: UShort): Boolean {
    return contains(value.toInt())
}
/**
 * Checks if the
 * specified [value] belongs to this range.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public operator fun
ULongRange.contains(value: UShort): Boolean {
    return contains(value.toULong())
}
/**
 * Returns a
 * progression from this value down to the specified [to] value with the step -1.
 *
 * The [to] value should be less than or equal to `this` value.
 *
 * If the [to] value is greater than `this` value the returned
 * progression is empty.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun
UByte.downTo(to: UByte): UIntProgression {
    return UIntProgression.fromClosedRange(this.toInt(),
        to.toInt(), -1)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -
 * 1.
 *
 * The [to] value should be less than or equal to `this` value.
 *
 * If the [to] value is greater than `this` value
 * the returned progression is empty.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun
UInt.downTo(to: UInt): UIntProgression {
    return UIntProgression.fromClosedRange(this, to, -1)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 *
 * The [to] value should
 * be less than or equal to `this` value.
 *
 * If the
 * [to] value is greater than `this` value the returned progression is empty.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public infix fun
ULong.downTo(to: ULong): ULongProgression {
    return ULongProgression.fromClosedRange(this, to, -
        1L)
}
/**
 * Returns a progression from this value down to the specified [to] value with the step -1.
 *
 * The [to] value should
 * be less than or equal to `this` value.
 *
 * If the
 * [to] value is greater than `this` value the
 */

```

returned progression is empty.\n

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toUInt(),  
to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the  
same step.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun  
UIntProgression.reversed(): UIntProgression
```

```
{\n    return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over  
the same range in the opposite direction with the same step.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun  
ULongProgression.reversed(): ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -  
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
UIntProgression.step(step: Int): UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return  
UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression  
that goes over the same range with the given step.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
ULongProgression.step(step: Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step  
else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the  
[to] value is less than or equal to `this` value, then the returned range is empty.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return  
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]  
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to:  
UInt): UIntRange {\n    if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to -  
1u).toUInt()\n}\n\n/**\n * Returns a  
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to  
`this` value, then the returned range is empty.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
ULong.until(to: ULong): ULongRange {\n    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n    return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]  
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun  
UShort.until(to: UShort): UIntRange {\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return  
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified  
[minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or  
the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun  
UInt.coerceAtLeast(minimumValue: UInt): UInt {\n    return if (this < minimumValue) minimumValue else  
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value  
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample  
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun  
ULong.coerceAtLeast(minimumValue: ULong): ULong {\n    return if (this < minimumValue) minimumValue else  
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value  
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample  
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
```

```

*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n    return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n    return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n    return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n    return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return
this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n    return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n
* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n    if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n    if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range:
maximum $maximumValue is less than minimum $minimumValue.")\n    if (this < minimumValue) return
minimumValue\n    if (this > maximumValue) return maximumValue\n    return this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun

```

```

UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    if (minimumValue >
        maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
        $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/** Ensures that this value
    lies in the specified range [minimumValue]..[maximumValue].
    * @return this value if it's in the range, or
    [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
    [maximumValue].
    * @sample samples.comparisons.ComparableOps.coerceInUnsigned
    */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun

UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {
    if (minimumValue >
        maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
        $maximumValue is less than minimum $minimumValue.")
    if (this < minimumValue) return minimumValue
    if (this > maximumValue) return maximumValue
    return this
}

/** Ensures that this value lies in the
    specified [range].
    * @return this value if it's in the [range], or `range.start` if this value is less than
    `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.
    * @sample samples.comparisons.ComparableOps.coerceInUnsigned
    */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun

UInt.coerceIn(range: ClosedRange<UInt>): UInt {
    if (range is ClosedFloatingPointRange) {
        return
        this.coerceIn<UInt>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to
    an empty range: $range.")
    return when {
        this < range.start -> range.start
        this > range.endInclusive -
        > range.endInclusive
        else -> this
    }
}

/** Ensures that this value lies in the specified [range].
    * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or
    `range.endInclusive` if this value is greater than `range.endInclusive`.
    * @sample
    samples.comparisons.ComparableOps.coerceInUnsigned
    */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public fun

ULong.coerceIn(range:
    ClosedRange<ULong>): ULong {
    if (range is ClosedFloatingPointRange) {
        return
        this.coerceIn<ULong>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
    to an empty range: $range.")
    return when {
        this < range.start -> range.start
        this >
        range.endInclusive -> range.endInclusive
        else -> this
    }
}

/** Copyright 2010-2023 JetBrains
    s.r.o. and Kotlin Programming Language contributors.
    * Use of this source code is governed by the Apache 2.0
    license that can be found in the license/LICENSE.txt file.
    */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("USequencesKt")
package
kotlin.sequences

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
nimport kotlin.random.*

/** Returns the
    sum of all elements in the sequence.
    * The operation is _terminal_.
    */
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedT
ypes::class)
public fun Sequence<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum
        += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
    * The
    operation is _terminal_.
    */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsigned
Types::class)
public fun Sequence<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this)
    {
        sum += element
    }
    return sum
}

/** Returns the sum of all elements in the sequence.
    * The
    operation is _terminal_.
    */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsigned
Types::class)
public fun Sequence<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum
        += element
    }
    return sum
}

/** Returns
    the sum of all elements in the sequence.
    * The operation is _terminal_.
    */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsigned

```

```

Types::class\npublic fun Sequence<UShort>.sum(): UInt { \n    var sum: UInt = 0u\n    for (element in this) { \n
sum += element\n    } \n    return sum\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic expect open class Error : Throwable { \n
constructor()\n    constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\n\npublic expect open class Exception : Throwable { \n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\n\npublic expect open class
RuntimeException : Exception { \n    constructor()\n    constructor(message: String?)\n    constructor(message:
String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\n\npublic expect open class
IllegalArgumentException : RuntimeException { \n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\n\n\npublic expect open
class IllegalStateException : RuntimeException { \n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\n\n\npublic expect open
class IndexOutOfBoundsException : RuntimeException { \n    constructor()\n    constructor(message:
String?)\n}\n\n\n\npublic expect open class ConcurrentModificationException : RuntimeException { \n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\n\n\npublic expect open
class UnsupportedOperationException : RuntimeException { \n    constructor()\n    constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n    constructor(cause: Throwable?)\n}\n\n\n\npublic expect open
class NumberFormatException : IllegalArgumentException { \n    constructor()\n    constructor(message:
String?)\n}\n\n\n\npublic expect open class NullPointerException : RuntimeException { \n    constructor()\n
constructor(message: String?)\n}\n\n\n\npublic expect open class ClassCastException : RuntimeException { \n
constructor()\n    constructor(message: String?)\n}\n\n\n\n\npublic expect open class AssertionError : Error { \n
constructor()\n    constructor(message: Any?)\n}\n\n    @SinceKotlin("1.9")\n    constructor(message: String?, cause:
Throwable?)\n}\n\n\n\npublic expect open class NoSuchElementException : RuntimeException { \n    constructor()\n
constructor(message: String?)\n}\n\n    @SinceKotlin("1.3")\n\n\npublic expect open class ArithmeticException :
RuntimeException
{\n    constructor()\n    constructor(message: String?)\n}\n\n    @Deprecated("This exception type is not supposed to
be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.", level =
DeprecationLevel.ERROR)\n\n\npublic expect open class NoWhenBranchMatchedException : RuntimeException { \n
constructor()\n    constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n
constructor(cause: Throwable?)\n}\n\n    @Deprecated("This exception type is not supposed to be thrown or caught in
common code and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n\n\npublic
expect class UninitializedPropertyAccessException : RuntimeException { \n    constructor()\n
constructor(message: String?)\n    constructor(message: String?, cause: Throwable?)\n    constructor(cause:
Throwable?)\n}\n\n    /**\n     * Thrown after invocation of a function or property that was expected to return `Nothing`,
but returned something instead.\n     */\n\n    @SinceKotlin("1.4")\n    @PublishedApi\n\n\ninternal class KotlinNothingValueException : RuntimeException { \n
constructor() : super()\n    constructor(message: String?) : super(message)\n    constructor(message: String?, cause:
Throwable?) : super(message, cause)\n    constructor(cause: Throwable?) : super(cause)\n}\n\n\n\n    /**\n     * Returns the
detailed description of this throwable with its stack trace.\n     */\n\n    /**\n     * The detailed description includes:\n     */\n\n    /**\n     * - the short
description (see [Throwable.toString]) of this throwable;\n     */\n\n    /**\n     * - the complete stack trace;\n     */\n\n    /**\n     * - detailed descriptions of
the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n     */\n\n    /**\n     * - the detailed
description of each throwable in the [Throwable.cause] chain.\n     */\n\n    @SinceKotlin("1.4")\n\n\npublic expect fun
Throwable.stackTraceToString(): String\n\n    /**\n     * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to the standard output or standard error output.\n     */\n\n    @SinceKotlin("1.4")\n    @Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n\n\npublic

```

```

expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified
exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*/\n@SinceKotlin("1.4")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\npublic expect fun
Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were suppressed in
order to deliver this exception.\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the
platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n
*/\n@SinceKotlin("1.4")\npublic expect val Throwable.suppressedExceptions: List<Throwable>\n","/*\n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a
function, a property or a class) specific name in JavaScript.\n */\n@Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect
annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n */\n * Note that
behavior of these annotations will likely be changed in the future.\n */\n * Usages of such annotations will be
reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g.
`@OptIn(ExperimentalJsExport::class)`,\n * or with the `-opt-in=kotlin.js.ExperimentalJsExport` compiler option is
given.\n */\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n */\n * Compiled
module exposes declarations that are marked with this annotation without name mangling.\n */\n * This annotation
can be applied to either files or top-level declarations.\n */\n * It is currently prohibited to export the following kinds
of declarations:\n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend
functions\n * * secondary constructors without `@JsName`\n * * extension properties\n * * enum classes\n * *
annotation classes\n */\n * Signatures of exported declarations must only contain `exportable` types:\n * *
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`,
`ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with
exportable parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable
counterparts of types above\n * * Unit return type. Must not be
nullable\n */\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n
*/\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class JsExport() {\n
/*\n * The annotation prevents exporting the annotated member of an exported class.\n * This annotation is
experimental, meaning that the restrictions mentioned above are subject to change.\n */\n
@ExperimentalJsExport\n @Retention(AnnotationRetention.BINARY)\n @Target(CLASS, PROPERTY,
FUNCTION)\n @SinceKotlin("1.8")\n @OptionalExpectation\n public annotation class
Ignore()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.io\n\n/**\n * Prints the line separator
to the standard output stream.\n */\npublic expect fun println()\n\n/**\n * Prints the given [message] and the line
separator to the standard output stream.\n */\npublic expect fun println(message: Any?)\n\n/**\n * Prints the given
[message] to the standard output stream.\n */\npublic expect fun print(message: Any?)\n\n/**\n * Reads a line of input
from the standard input stream and returns it,\n * or throws a [RuntimeException] if EOF has already been reached
when [readLn] is called.\n * LF or CRLF is treated as the line terminator. Line terminator is not included in the
returned string.\n */\n * Currently this function is not supported in Kotlin/JS and throws
[UnsupportedOperationException].\n */\n@SinceKotlin("1.6")\npublic expect fun readLn(): String\n\n/**\n * Reads a
line of input from the standard input stream and returns it,\n * or return `null` if EOF has already been
reached when [readLnOrNull] is called.\n * LF or CRLF is treated as the line terminator. Line terminator is not

```

included in the returned string.

```

 * Currently this function is not supported in Kotlin/JS and throws
 [UnsupportedOperationException].
 * @since Kotlin(1.6)
 public expect fun readInOrNull():
 String?
 internal class ReadAfterEOFException(message: String?) : RuntimeException(message)
 internal
 expect interface Serializable {
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 contributors.
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 license/LICENSE.txt file.
 * package kotlin.collections
 * import kotlin.internal.PlatformDependent
 * Classes that inherit from this interface can be represented as a sequence of elements that can
 * be iterated over.
 * @param T the type of element being iterated over. The iterator is covariant in its element type.
 * public interface
 Iterable<out T> {
 * Returns an iterator over the elements of this object.
 * public operator
 fun iterator(): Iterator<T>
 * Classes that inherit from this interface can be represented as a sequence of
 elements that can
 * be iterated over and that supports removing elements during iteration.
 * @param T the type
 of element being iterated over. The mutable iterator is invariant in its element type.
 * public interface
 MutableIterable<out T> : Iterable<T> {
 * Returns an iterator over the elements of this sequence that
 supports removing elements during iteration.
 * override fun iterator(): MutableIterator<T>
 * A
 generic collection of elements. Methods in this interface support only read-only access to the collection;
 * read/write access is supported through the [MutableCollection] interface.
 * @param E the type of elements
 contained in the collection. The collection is covariant in its element type.
 * public interface Collection<out E> :
 Iterable<E> {
 // Query Operations
 * Returns the size of the
 collection.
 * public val size: Int
 * Returns `true` if the collection is empty (contains no
 elements), `false` otherwise.
 * public fun isEmpty(): Boolean
 * Checks if the specified
 element is contained in this collection.
 * public operator fun contains(element: @UnsafeVariance E):
 Boolean
 override fun iterator(): Iterator<E>
 // Bulk Operations
 * Checks if all elements in
 the specified collection are contained in this collection.
 * public fun containsAll(elements:
 Collection<@UnsafeVariance E>): Boolean
 * A generic collection of elements that supports adding and
 removing elements.
 * @param E the type of elements contained in the collection. The mutable collection is
 invariant in its element type.
 * public interface MutableCollection<E> : Collection<E>, MutableIterable<E> {
 // Query Operations
 override fun iterator(): MutableIterator<E>
 //
 // Modification Operations
 * Adds the specified element to the collection.
 * @return `true` if
 the element has been added, `false` if the collection does not support duplicates
 * and the element is already
 contained in the collection.
 * public fun add(element: E): Boolean
 * Removes a single
 instance of the specified element from this
 * collection, if it is present.
 * @return `true` if the element
 has been successfully removed; `false` if it was not present in the collection.
 * public fun remove(element:
 E): Boolean
 // Bulk Modification Operations
 * Adds all of the elements of the specified collection
 to this collection.
 * @return `true` if any of the specified elements was added to the collection, `false` if
 the collection was not modified.
 * public fun addAll(elements: Collection<E>): Boolean
 *
 * Removes all of this collection's elements
 that are also contained in the specified collection.
 * @return `true` if any of the specified elements was
 removed from the collection, `false` if the collection was not modified.
 * public fun removeAll(elements:
 Collection<E>): Boolean
 * Retains only the elements in this collection that are contained in the
 specified collection.
 * @return `true` if any element was removed from the collection, `false` if the
 collection was not modified.
 * public fun retainAll(elements: Collection<E>): Boolean
 *
 * Removes all elements from this collection.
 * public fun clear(): Unit
 * A generic ordered
 collection of elements. Methods in this interface support only read-only access to the list;
 * read/write access is
 supported through the [MutableList] interface.
 * @param E the type of elements contained in the list. The list is
 covariant in its element type.
 * public interface List<out
 E> : Collection<E> {
 // Query Operations
 override val size: Int
 override fun isEmpty(): Boolean
 override fun contains(element: @UnsafeVariance E): Boolean
 override fun iterator(): Iterator<E>
 // Bulk
 Operations
 override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean
 // Positional

```



```

Access Operations\n /**\n * Returns the element at the specified index in the list.\n */\n public operator fun
get(index: Int): E\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n */\n public fun
lastIndexOf(element: @UnsafeVariance E): Int\n\n //
List Iterators\n /**\n * Returns a list iterator over the elements in this list (in proper sequence).\n */\n
public fun listIterator(): ListIterator<E>\n\n /**\n * Returns a list iterator over the elements in this list (in proper
sequence), starting at the specified [index].\n */\n public fun listIterator(index: Int): ListIterator<E>\n\n //
View\n /**\n * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and
[toIndex] (exclusive).\n * The returned list is backed by this list, so non-structural changes in the returned list are
reflected in this list, and vice-versa.\n */\n * Structural changes in the base list make the behavior of the view
undefined.\n */\n public fun subList(fromIndex: Int, toIndex: Int): List<E>\n\n /**\n * A generic ordered
collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in
the list. The mutable list is invariant
in its element type.\n */\n public interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification
Operations\n /**\n * Adds the specified element to the end of this list.\n */\n * @return `true` because the
list is always modified as the result of this operation.\n */\n override fun add(element: E): Boolean\n\n
override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the
elements of the specified collection to the end of this list.\n */\n * The elements are appended in the order they
appear in the [elements] collection.\n */\n * @return `true` if the list was changed as the result of the
operation.\n */\n override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the
elements of the specified collection [elements] into this list at the specified [index].\n */\n * @return `true` if the
list was changed as the result of the operation.\n
*/\n public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n override fun removeAll(elements:
Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear():
Unit\n\n // Positional Access Operations\n /**\n * Replaces the element at the specified position in this list
with the specified element.\n */\n * @return the element previously at the specified position.\n */\n public
operator fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list at the specified [index].\n
*/\n public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element at the specified [index] from
the list.\n */\n * @return the element that has been removed.\n */\n public fun removeAt(index: Int): E\n\n // List Iterators\n
override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int):
MutableListIterator<E>\n\n // View\n override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n\n /**\n * A generic unordered
collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only
access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of
elements contained in the set. The set is covariant in its element type.\n */\n public interface Set<out E> :
Collection<E> {\n // Query Operations\n\n override val size: Int\n\n override fun isEmpty(): Boolean\n\n
override fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk
Operations\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n\n /**\n * A
generic unordered collection of elements that does not support duplicate elements, and supports\n * adding and
removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant
in its element type.\n */\n public interface MutableSet<E> : Set<E>, MutableCollection<E> {\n // Query
Operations\n\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n\n /**\n * Adds
the specified element to the set.\n */\n * @return `true` if the element has been added, `false` if the element is
already contained in the set.\n */\n override fun add(element: E): Boolean\n\n override fun remove(element:
E): Boolean\n\n // Bulk Modification Operations\n\n override fun addAll(elements: Collection<E>): Boolean\n\n
override fun removeAll(elements: Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>):

```

```

Boolean override fun clear(): Unit
}

/**
 * A collection that holds pairs of objects (keys and values) and
 * supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one
 * value for each key.
 *
 * Methods in this interface support only read-only
 * access to the map; read-write access is supported through the [MutableMap] interface.
 *
 * @param K the type
 * of map keys. The map is invariant in its key type, as it can accept key as a parameter (of [containsKey] for
 * example) and return it in [keys] set.
 *
 * @param V the type of map values. The map is covariant in its value type.
 */
public interface Map<K, out V> {
    // Query Operations
    /**
     * Returns the number of key/value pairs
     * in the map.
     */
    public val size: Int

    /**
     * Returns `true` if the map is empty (contains no elements),
     * `false` otherwise.
     */
    public fun isEmpty(): Boolean

    /**
     * Returns `true` if the map contains the
     * specified [key].
     */
    public fun containsKey(key: K): Boolean

    /**
     * Returns `true` if the map maps
     * one or more keys to the specified [value].
     */
    public fun containsValue(value: @UnsafeVariance V):
    Boolean

    /**
     * Returns the value corresponding
     * to the given [key], or `null` if such a key is not present in the map.
     */
    public operator fun get(key: K):
    V?

    /**
     * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present
     * in the map.
     */
    @since JDK 1.8
    @SinceKotlin("1.1")
    @PlatformDependent
    public fun
    getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {
        // See default implementation in JDK
        sources
        throw NotImplementedError()
    }

    // Views
    /**
     * Returns a read-only [Set] of all keys
     * in this map.
     */
    public val keys: Set<K>

    /**
     * Returns a read-only [Collection] of all values in this
     * map. Note that this collection may contain duplicate values.
     */
    public val values: Collection<V>

    /**
     * Returns a read-only [Set] of all key/value pairs in this map.
     */
    public val entries: Set<Map.Entry<K,
    V>>

    /**
     * Represents a key/value
     * pair held by a [Map].
     */
    public interface Entry<out K, out V> {
        /**
         * Returns the key of this
         * key/value pair.
         */
        public val key: K

        /**
         * Returns the value of this key/value pair.
         */
        public val value: V
    }

    /**
     * A modifiable collection that holds pairs of objects (keys and values)
     * and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only
     * one value for each key.
     *
     * @param K the type of map keys. The map is invariant in its key type.
     * @param V the type of map values. The mutable map is invariant in its value type.
     */
    public interface MutableMap<K, V> :
    Map<K, V> {
        // Modification Operations
        /**
         * Associates the specified [value] with the specified [key]
         * in the map.
         */
        @return the previous value associated with the key, or `null` if the key was not present in
        the map.
        public fun
        put(key: K, value: V): V?

        /**
         * Removes the specified key and its corresponding value from this map.
         */
        @return the previous value associated with the key, or `null` if the key was not present in the map.
        public fun
        remove(key: K): V?

        /**
         * Removes the entry for the specified key only if it is mapped to the
         * specified value.
         */
        @return true if entry was removed
        @SinceKotlin("1.1")
        @PlatformDependent
        public fun
        remove(key: K, value: V): Boolean {
            // See default implementation in
            JDK sources
            return true
        }

        // Bulk Modification Operations
        /**
         * Updates this map with
         * key/value pairs from the specified map [from].
         */
        public fun putAll(from: Map<out K, V>): Unit

        /**
         * Removes all elements from this map.
         */
        public fun clear(): Unit

        // Views
        /**
         * Returns a
         * [MutableSet] of all keys in this map.
         */
        override
        val keys: MutableSet<K>

        /**
         * Returns a [MutableCollection] of all values in this map. Note that this
         * collection may contain duplicate values.
         */
        override
        val values: MutableCollection<V>

        /**
         * Returns a [MutableSet] of all key/value pairs in this map.
         */
        override
        val entries:
        MutableSet<MutableMap.MutableEntry<K, V>>

        /**
         * Represents a key/value pair held by a
         * [MutableMap].
         */
        public interface MutableEntry<K, V> : Map.Entry<K, V> {
            /**
             * Changes
             * the value associated with the key of this entry.
             */
            @return the previous value corresponding to the
            key.
            public fun
            setValue(newValue: V): V
        }
    }
}

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 */

```

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```
* Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
package kotlin
 * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.
public object Unit {
    override fun toString() = "kotlin.Unit"
}
 * Copyright 2010-2015 JetBrains s.r.o. Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,
```

```
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
package kotlin.annotation
import kotlin.annotation.AnnotationTarget
 * Contains the list of code elements which are the possible annotation targets
public enum class AnnotationTarget {
    /** Class, interface or object, annotation class is also included */
    CLASS,
    /** Annotation class only */
    ANNOTATION_CLASS,
    /** Generic type parameter */
    TYPE_PARAMETER,
    /** Property */
    PROPERTY,
    /** Field, including property's backing field */
    FIELD,
    /** Local variable */
    LOCAL_VARIABLE,
    /** Value parameter of a function or a constructor */
    VALUE_PARAMETER,
    /** Constructor only (primary or secondary) */
    CONSTRUCTOR,
    /** Function (constructors are not included) */
    FUNCTION,
    /** Property getter only */
    PROPERTY_GETTER,
```

```
    /** Property setter only */
    PROPERTY_SETTER,
    /** Type usage */
    TYPE,
    /** Any expression */
    EXPRESSION,
    /** File */
    FILE,
    /** Type alias */
    @SinceKotlin("1.1")
    TYPEALIAS
}
 * Contains the list of possible annotation's retentions. Determines how an annotation is stored in binary output.
public enum class AnnotationRetention {
    /** Annotation isn't stored in binary output */
    SOURCE,
    /** Annotation is stored in binary output, but invisible for reflection */
    BINARY,
    /** Annotation is stored in binary output and visible for reflection (default retention) */
    RUNTIME
}
 * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation. If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements: [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE],
```

```
[VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].
 * @property allowedTargets list of allowed annotation targets
@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
public annotation class Target(vararg val allowedTargets: AnnotationTarget)
 * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.
 * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)
 * This meta-annotation determines that an annotation is applicable twice or more on a single code element
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class Repeatable
 * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated documentation for the element to which the annotation is applied.
@Target(AnnotationTarget.ANNOTATION_CLASS)
public annotation class MustBeDocumented
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
```

```
@JsName("arrayIterator")
internal fun arrayIterator(array: dynamic, type: String?) = when (type) {
    null -> {
        val arr: Array<dynamic> = array
        object : Iterator<dynamic> {
            var index = 0

```

```

override fun hasNext() = index < arr.size\n      override fun next() = if (index < arr.size) arr[index++] else throw
NoSuchElementException("\$index")\n    }\n  }\n  \\"BooleanArray\\" -> booleanArrayIterator(array)\n
\\"ByteArray\\" -> byteArrayIterator(array)\n  \\"ShortArray\\" -> shortArrayIterator(array)\n  \\"CharArray\\" ->
charArrayIterator(array)\n
  \\"IntArray\\" -> intArrayIterator(array)\n  \\"LongArray\\" -> longArrayIterator(array)\n  \\"FloatArray\\" ->
floatArrayIterator(array)\n  \\"DoubleArray\\" -> doubleArrayIterator(array)\n  else -> throw
IllegalStateException("\Unsupported type argument for arrayIterator:
$type")\n}\n\n@JsName(\\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"byteArrayIterator\")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"shortArrayIterator\")\ninternal fun
shortArrayIterator(array: ShortArray) = object
: ShortIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun nextShort() = if
(index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"charArrayIterator\")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"intArrayIterator\")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n  override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"floatArrayIterator\")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n  var index = 0\n  override fun hasNext() = index
< array.size\n  override
fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"doubleArrayIterator\")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n  var index = 0\n  override fun hasNext()
= index < array.size\n  override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"longArrayIterator\")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n  var index = 0\n  override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException("\$index")\n}\n\n@JsName(\\"PropertyMetadata\")\ninternal class
PropertyMetadata(@JsName(\\"callableName\") val name:
String)\n\n@JsName(\\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName(\\"subSequence\")\ninternal fun subSequence(c:
CharSequence, startIndex: Int, endIndex: Int): CharSequence {\n  if (c is String) {\n    return
c.substring(startIndex, endIndex)\n  } else {\n    return c.asDynamic().`subSequence_vux9f0$`(startIndex,
endIndex)\n  }\n}\n\n@JsName(\\"captureStack\")\ninternal fun
captureStack(@Suppress(\\"UNUSED_PARAMETER\") baseClass: JsClass<in Throwable>, instance: Throwable)
{\n  if (js(\\"Error\").captureStackTrace) {\n    // Using uncropped stack traces due to KT-37563.\n    // Precise
stack traces are implemented in JS IR compiler and stdlib\n    js(\\"Error\").captureStackTrace(instance);\n  } else
{\n    instance.asDynamic().stack = js(\\"new Error()\").stack;\n  }\n}\n\n@JsName(\\"newThrowable\")\ninternal
fun newThrowable(message: String?, cause: Throwable?): Throwable {\n  val throwable = js(\\"new Error()\")\n
throwable.message = if (jsTypeOf(message) == \\"undefined\") {\n    if (cause != null) cause.toString() else null\n
} else {\n  message\n}

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    } \n    throwable.cause = cause \n    throwable.name = \"Throwable\" \n    return
throwable \n} \n \n @JsName(\"BoxedChar\") \n internal class BoxedChar(val c: Int) : Comparable<Int> { \n    override
fun equals(other: Any?): Boolean { \n        return other is BoxedChar && c == other.c \n    } \n \n    override fun
hashCode(): Int { \n        return c \n    } \n \n    override fun toString(): String { \n        return
js(\"this.c\").unsafeCast<Char>().toString() \n    } \n \n    override fun compareTo(other: Int): Int { \n        return
js(\"this.c - other\").unsafeCast<Int>() \n    } \n \n    @JsName(\"valueOf\") \n    public fun valueOf(): Int { \n
return c \n    } \n} \n \n @kotlin.internal.InlineOnly \n internal inline fun <T> concat(args: Array<T>): T { \n    val typed
= js(\"Array\")(args.size) \n    for (i in args.indices) { \n        val arr = args[i] \n        if (arr !is Array<*>) { \n
typed[i] = js(\"[\"]\").slice.call(arr) \n        } else { \n            typed[i] = arr \n        } \n    } \n
return js(\"[\"]\").concat.apply(js(\"[\"]\"), typed); \n} \n \n /** Concat regular Array's and TypedArray's into an Array. \n
*/ \n @PublishedApi \n @JsName(\"arrayConcat\") \n @Suppress(\"UNUSED_PARAMETER\") \n internal fun <T>
arrayConcat(a: T, b: T): T { \n    return concat(js(\"arguments\")) \n} \n \n /** Concat primitive arrays. Main use:
prepare vararg arguments. \n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's. \n * \n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array. \n * If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$. \n * If the first argument is a regular Array without the $type$ property
default to arrayConcat. \n
*/ \n @PublishedApi \n @JsName(\"primitiveArrayConcat\") \n @Suppress(\"UNUSED_PARAMETER\") \n internal
fun <T> primitiveArrayConcat(a: T, b: T): T { \n    val args: Array<T> = js(\"arguments\") \n    if
(a is Array<*> && a.asDynamic().`$type$` === undefined) { \n        return concat(args) \n    } else { \n        var size =
0 \n        for (i in args.indices) { \n            size += args[i].asDynamic().length as Int \n        } \n        val result = js(\"new
a.constructor(size)\") \n        kotlin.copyArrayType(a, result) \n        size = 0 \n        for (i in args.indices) { \n            val
arr = args[i].asDynamic() \n            for (j in 0 until arr.length) { \n                result[size++] = arr[j] \n            } \n
        } \n        return result \n    } \n} \n \n @JsName(\"booleanArrayOf\") \n internal fun booleanArrayOf() =
withType(\"BooleanArray\", js(\"[].slice.call(arguments)\")) \n \n @JsName(\"charArrayOf\") \n internal fun
charArrayOf() = withType(\"CharArray\", js(\"new
Uint16Array(arguments)\")) \n \n @JsName(\"longArrayOf\") \n internal fun longArrayOf() =
withType(\"LongArray\",
js(\"[].slice.call(arguments)\")) \n \n @JsName(\"withType\") \n @kotlin.internal.InlineOnly \n internal inline fun
withType(type:
String, array: dynamic): dynamic { \n    array.`$type$` = type \n    return array \n} \n \n /** Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file. \n * \n \n package kotlin.js \n \n /** \n * Function
corresponding to JavaScript's `typeof` operator \n
*/ \n @kotlin.internal.InlineOnly \n @Suppress(\"UNUSED_PARAMETER\") \n public inline fun jsTypeOf(a: Any?):
String = js(\"typeof a\") \n \n /** Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file. \n * \n \n @file:Suppress(\"UNUSED_PARAMETER\",
\"NOTHING_TO_INLINE\") \n \n package kotlin \n \n /** \n * Returns an empty array of the specified type [T]. \n
*/ \n \n public inline fun <T> emptyArray(): Array<T> = js(\"[\"] \n \n @library \n public fun <T> arrayOf(vararg
elements:
T): Array<T> = definedExternally \n \n @library \n public fun doubleArrayOf(vararg elements: Double): DoubleArray
= definedExternally \n \n @library \n public fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally \n \n @library \n public fun longArrayOf(vararg elements: Long): LongArray =
definedExternally \n \n @library \n public fun intArrayOf(vararg elements: Int): IntArray =
definedExternally \n \n @library \n public fun charArrayOf(vararg elements: Char): CharArray =
definedExternally \n \n @library \n public fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally \n \n @library \n public fun byteArrayOf(vararg elements: Byte): ByteArray =

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definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n *
Creates a new
instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode] parameter is
ignored. *\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\npublic actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n    val srcLen: Int = src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index <
srcLen && index < dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source:
dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n
copyArrayType(source, result)\n    var index: Int = source.length\n    if (newSize > index) {\n
result.length = newSize\n    while (index < newSize) result[index++] = defaultValue\n    }\n    return
result\n}\n\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n    val
result = array.slice()\n    result.length += collection.size\n    copyArrayType(array, result)\n    var index: Int =
array.length\n    for (element in collection) result[index++] = element\n    return result\n}\n\n\ninternal fun <T>
fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n    var index = startIndex\n
for (element in collection) dst[index++] = element\n    return dst\n}\n\n\ninternal inline fun copyArrayType(from:
dynamic, to: dynamic) {\n    if (from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n
}\n}\n\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass),"/*\n *
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of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample
samples.text.Chars.charFromCode\n
*\n\n@SinceKotlin("1.5")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\n@kotlin.internal.InlineOnly\n\npubli
c actual inline fun Char(code: UShort): Char {\n    return code.toInt().toChar()\n}\n\n",/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n\n@JsName("CoroutineImpl")\n\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n    protected var state = 0\n    protected var exceptionState = 0\n    protected var result: Any? =
null\n    protected var exception: Throwable? = null\n    protected var finallyPath: Array<Int>? = null\n\n    public
override val context: CoroutineContext = resultContinuation.context\n    private var intercepted_:
Continuation<Any?>? = null\n\n    public fun intercepted(): Continuation<Any?> =\n        intercepted_\n        ?:
(context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n        .also { intercepted_ = it }\n\n
override fun resumeWith(result: Result<Any?>) {\n    var current = this\n    var currentResult: Any? =
result.getOrNull()\n    var currentException: Throwable? = result.exceptionOrNull()\n    // This loop unrolls
recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n    while (true) {\n
with(current) {\n        val completion = resultContinuation\n        // Set result and exception fields in
the current continuation\n        if (currentException
== null) {\n            this.result = currentResult\n        } else {\n            state = exceptionState\n
exception = currentException\n        }\n        try {\n            val outcome = doResume()\n
if (outcome === COROUTINE_SUSPENDED) return\n            currentResult = outcome\n
currentException = null\n        } catch (exception: dynamic) { // Catch all exceptions\n
currentResult = null\n            currentException = exception.unsafeCast<Throwable>()\n        }\n\n
releaseIntercepted() // this state machine instance is terminating\n        if (completion is CoroutineImpl) {\n
// unrolling recursion via loop\n            current = completion\n        } else {\n            // top-

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level completion reached -- invoke and return\n
currentException?.let
{\n
completion.resumeWithException(it)\n
} ?: completion.resume(currentResult)\n
return\n
}\n
}\n
}\n
}\n
}\n
}\n
private fun releaseIntercepted() {\n
val intercepted =
intercepted_\n
if (intercepted != null && intercepted !== this) {\n
context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n
}\n
this.intercepted_ =
CompletedContinuation // just in case\n
}\n
}\n
protected abstract fun doResume(): Any?\n
}\n
}\n
internal object
CompletedContinuation : Continuation<Any?> {\n
override val context: CoroutineContext\n
get() =
error("This continuation is already complete")\n
}\n
}\n
override fun resumeWith(result: Result<Any?>) {\n
error("This continuation is already complete")\n
}\n
}\n
override fun toString(): String = "This continuation is
already complete"\n
}\n
}\n
"/*\n
 * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
 */\n
@file:Suppress("UNCHECKED_CAST",
"RedundantVisibilityModifier")\n
package kotlin\n
nimport kotlin.contracts.*\n
nimport
kotlin.internal.InlineOnly\n
nimport kotlin.jvm.JvmField\n
nimport kotlin.jvm.JvmInline\n
nimport
kotlin.jvm.JvmName\n
n/**\n
 * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n
 * or a failure with an arbitrary [Throwable] exception.\n
 */\n
@SinceKotlin("1.3")\n
@JvmInline\n
public
value class Result<out T> @PublishedApi internal constructor(\n
@PublishedApi\n
internal val value: Any?\n
) :
Serializable {\n
// discovery\n
/**\n
 * Returns `true` if this instance represents a successful outcome.\n
 *
In this case [isFailure] returns `false`.\n
 */\n
public val isSuccess: Boolean get() = value !is Failure\n
}\n
/**\n
 * Returns
`true` if this instance represents a failed outcome.\n
 *
In this case [isSuccess] returns `false`.\n
 */\n
public val
isFailure: Boolean get() = value is Failure\n
}\n
// value & exception retrieval\n
/**\n
 * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n
 * if it is
[failure][Result.isFailure].\n
 */\n
 * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n
 * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n
 */\n
@InlineOnly\n
public inline fun
getOrNull(): T? =\n
when {\n
isFailure -> null\n
else -> value as T\n
}\n
}\n
/**\n
 *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n
 * if it is
[success][isSuccess].\n
 */\n
 * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n
 */\n
public fun exceptionOrNull():
Throwable? =\n
when (value) {\n
is Failure -> value.exception\n
else -> null\n
}\n
}\n
}\n
/**\n
 * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\n
 * where `v` is a string
representation of the value or a string `Failure(x)` if\n
 * it is [failure][isFailure] where `x` is a string
representation of the exception.\n
 */\n
public override fun toString(): String =\n
when (value) {\n
is
Failure -> value.toString() // "Failure($exception)"\n
else -> "Success($value)"\n
}\n
}\n
}\n
// companion
with constructors\n
}\n
}\n
/**\n
 * Companion object for [Result] class that contains its constructor functions\n
 *
[success] and [failure].\n
 */\n
public companion object {\n
/**\n
 * Returns an instance that
encapsulates the given [value] as successful value.\n
 */\n
@JvmName("success")\n
@InlineOnly\n
public inline fun <T> success(value: T): Result<T> =\n
Result(value)\n
}\n
}\n
/**\n
 * Returns an instance that encapsulates the given [Throwable] [exception] as
failure.\n
 */\n
@JvmName("failure")\n
@Suppress("INAPPLICABLE_JVM_NAME")\n
@InlineOnly\n
public inline fun <T> failure(exception: Throwable): Result<T> =\n
Result(createFailure(exception))\n
}\n
}\n
internal class Failure(\n
@JvmField\n
val exception:
Throwable\n
) : Serializable {\n
override fun equals(other: Any?): Boolean = other is Failure && exception
== other.exception\n
override fun hashCode(): Int = exception.hashCode()\n
override fun toString(): String
= "Failure($exception)"\n
}\n
}\n
}\n
}\n
/**\n
 * Creates an instance of internal marker [Result.Failure] class to\n
 *
make sure that this class is not exposed in ABI.\n
 */\n
@PublishedApi\n
@SinceKotlin("1.3")\n
internal

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fun createFailure(exception: Throwable): Any = \n  Result.Failure(exception)\n\n/**\n * Throws exception if the
result is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the
future we can\n * add some exception-augmenting logic here (if needed).\n
*/\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun Result<*>.throwOnFailure() {\n  if (value is
Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its encapsulated
result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block]
function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun
<R> runCatching(block: () -> R): Result<R> {\n  return try {\n    Result.success(block())\n  } catch (e:
Throwable) {\n    Result.failure(e)\n  }\n}\n\n/**\n * Calls the specified function [block] with `this` value as its
receiver and returns
its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from
the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic
inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n  return try {\n    Result.success(block())\n  }
catch (e: Throwable) {\n    Result.failure(e)\n  }\n}\n\n// extensions ---\n\n/**\n * Returns the encapsulated
value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception\n * if
it is [failure][Result.isFailure].\n */\n * This function is a shorthand for `getOrNull { throw it }` (see [getOrNull]).\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n
throwOnFailure()\n  return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents
[success][Result.isSuccess] or the\n * result of [onFailure] function for the
encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows any
[Throwable] exception thrown by [onFailure] function.\n */\n * This function is a shorthand for `fold(onSuccess = {
it }, onFailure = onFailure)` (see [fold]).\n */\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R>
Result<T>.getOrNull(onFailure: (exception: Throwable) -> R): R {\n  contract {\n    callsInPlace(onFailure,
InvocationKind.AT_MOST_ONCE)\n  }\n  return when (val exception = exceptionOrNull()) {\n    null ->
value as T\n    else -> onFailure(exception)\n  }\n}\n\n/**\n * Returns the encapsulated value if this instance
represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n */\n * This
function is a shorthand for `getOrNull { defaultValue }` (see [getOrNull]).\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R):
R {\n
  if (isFailure) return defaultValue\n  return value as T\n}\n\n/**\n * Returns the result of [onSuccess] for the
encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for
the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows
any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.fold(\n  onSuccess: (value: T) ->
R,\n  onFailure: (exception: Throwable) -> R\n): R {\n  contract {\n    callsInPlace(onSuccess,
InvocationKind.AT_MOST_ONCE)\n    callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n  }\n  return when (val exception = exceptionOrNull()) {\n    null -> onSuccess(value as T)\n    else ->
onFailure(exception)\n  }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given
[transform] function applied to
the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated
[Throwable] exception if it is [failure][Result.isFailure].\n */\n * Note, that this function rethrows any [Throwable]
exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n
*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R):
Result<R> {\n  contract {\n    callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n  }\n  return when
{\n    isSuccess -> Result.success(transform(value as T))\n    else -> Result(value)\n  }\n}\n\n/**\n * Returns
the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance
represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is
[failure][Result.isFailure].\n */\n * This function catches any [Throwable] exception thrown

```



by [transform] function and encapsulates it as a failure.\n \* See [map] for an alternative that rethrows exceptions from `transform` function.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n}\n\n/\*\*\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \*/\n \* Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n \* See [recoverCatching] for an alternative that encapsulates exceptions.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT\_MOST\_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n}\n\n/\*\*\n \* Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n \* if this instance represents [failure][Result.isFailure] or the\n \* original encapsulated value if it is [success][Result.isSuccess].\n \*/\n \* This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n \* See [recover] for an alternative that rethrows exceptions.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n}\n\n/\*\*\n \* Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n \* Returns the original `Result` unchanged.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT\_MOST\_ONCE)\n }\n exceptionOrNull()?.let { action(it) }\n return this\n}\n\n/\*\*\n \* Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n \* Returns the original `Result` unchanged.\n \*/\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT\_MOST\_ONCE)\n }\n if (isSuccess) action(value as T)\n return this\n}\n\n-----\n--\n"/\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.coroutines\nimport kotlin.contracts.\*\nimport kotlin.coroutines.intrinsics.\*\nimport kotlin.internal.InlineOnly\n\n/\*\*\n \* Interface representing a continuation after a suspension point that returns a value of type `T`.\n \*/\n@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n /\*\*\n \* The context of the coroutine that corresponds to this continuation.\n \*/\n public val context: CoroutineContext\n\n /\*\*\n \* Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n \* return value of the last suspension point.\n \*/\n public fun resumeWith(result: Result<T>)\n}\n\n/\*\*\n \* Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n \* `suspend` functions. These `suspend` extensions can only invoke other member or extension\n \* `suspend` functions on this particular\n \* receiver and are restricted from calling arbitrary suspension functions.\n \*/\n@SinceKotlin("1.3")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class RestrictsSuspension\n\n/\*\*\n \* Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\n resumeWith(Result.success(value))\n\n/\*\*\n \* Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n \* last suspension point.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n resumeWith(Result.failure(exception))\n\n/\*\*\n \* Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\n \*/\n@SinceKotlin("1.3")\n@InlineOnly\npublic

```

inline fun <T> Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit\n):
Continuation<T> =\n object : Continuation<T> {\n override val context: CoroutineContext\n get() =
context\n\n override fun resumeWith(result: Result<T>) =\n resumeWith(result)\n }\n\n/**\n * Creates
a coroutine without a receiver and with result type [T].\n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the
resulting continuation will produce an [IllegalStateException].\n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).createCoroutine(\n completion: Continuation<T>)\n):
Continuation<Unit> =\n SafeContinuation(createCoroutineUnintercepted(completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Creates a coroutine with receiver type [R] and result type [T].\n * This
function creates a new, fresh instance of suspendable computation every time it is invoked.\n * To start
executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent
invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n receiver: R,\n completion: Continuation<T>)\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver
and with result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation every
time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or an
exception.\n *
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n *
*\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>)\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current
continuation instance inside suspend functions and suspends\n * the currently running
coroutine.\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used
either synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the
same thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce
an [IllegalStateException].\n *
*\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block,
InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -
->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**\n * Returns the context of the current coroutine.\n
*\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic
suspend inline val coroutineContext: CoroutineContext\n get() {\n throw
NotImplementedError("Implemented as intrinsic")\n }\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *
*\npackage kotlin.coroutines.intrinsics\n\nimport
kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver
and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or
throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n *
*\n * The

```

coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.

This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```

@SinceKotlin("1.3")@InlineOnly
public actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(
    completion: Continuation<T>): Any? = this.asDynamic().if (this !is CoroutineImpl) createSimpleCoroutineFromSuspendFunction(completion) else completion, false

```

Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension. Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE\_SUSPENDED] if it suspends. In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.

The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established.

This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended coroutine using a reference to the suspending function.

```

@SinceKotlin("1.3")@InlineOnly
public actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(
    receiver: R, completion: Continuation<T>): Any? = this.asDynamic().(receiver, if (this !is CoroutineImpl) createSimpleCoroutineFromSuspendFunction(completion) else completion, false)

```

Creates an unintercepted coroutine without receiver and with result type [T]. This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance. The [completion] continuation is invoked when coroutine completes with result or exception. This function returns unintercepted continuation. Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. Note that [completion] of this function may get invoked in an arbitrary context. [Continuation.intercepted] can be used to acquire the intercepted continuation. Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of both the coroutine and [completion] happens in the invocation context established by [ContinuationInterceptor]. Repeated invocation of any resume function on the resulting continuation corrupts the state machine of the coroutine and may result in arbitrary behaviour or exception.

```

@SinceKotlin("1.3")@InlineOnly
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(
    completion: Continuation<T>): Continuation<Unit> = //
    // Kotlin/JS suspend lambdas have an extra parameter `suspended`
    // if (this.asDynamic().length == 2) {
    //     When `suspended` is true the continuation is created, but not executed
    //     this.asDynamic()(completion, true)
    // } else {
    //     createCoroutineFromSuspendFunction(completion)
    // }
    this.asDynamic()(completion)

```

Creates unintercepted coroutine with receiver type [R] and result type [T]. This function creates a new, fresh instance of suspendable computation every time it is invoked. To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance. The [completion] continuation is invoked when coroutine completes with result or exception. This function returns unintercepted continuation. Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the [ContinuationInterceptor] that might be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. Note that [completion] of this function may get invoked in an arbitrary context. [Continuation.intercepted] can be used to acquire the intercepted continuation. Invocation

```

of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion]
happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any
resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in
arbitrary behaviour or exception.\n *\n@SinceKotlin("1.3")\npublic actual fun <R, T> (suspend R.() ->
T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\n //
Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 3) {\n //
When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(receiver, completion,
true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(receiver,
completion)\n }\n }\n}\n}\n}\n *\n * Intercepts this continuation with [ContinuationInterceptor].\n
*\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or
[suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for [ContinuationInterceptor] in the
continuation's [context][Continuation.context],\n * invokes [ContinuationInterceptor.interceptContinuation], caches
and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this`
continuation unchanged.\n *\n@SinceKotlin("1.3")\npublic actual fun <T> Continuation<T>.intercepted():
Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\nprivate inline fun <T>
createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?\n):
Continuation<Unit> {\n @Suppress("UNCHECKED_CAST")\n return object : CoroutineImpl(completion as
Continuation<Any?>) {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return
block()\n
}\n }\n}\n}\n\n@PublishedApi\ninternal fun <T> createSimpleCoroutineFromSuspendFunction(\n completion:
Continuation<T>\n): CoroutineImpl = object : CoroutineImpl(completion as Continuation<Any?>) {\n override
fun doResume(): Any? {\n if (exception != null) throw exception as Throwable\n return result\n
}\n}\n}\n","/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.js\n\n// Mirrors signature from JS IR BE\n// Used for
js.translator/testData/box/number/mulInt32.kt\n@library\n@jsName("imulEmulated")\n@Suppress("UNUSED_P
ARAMETER")\ninternal fun imul(x: Int, y: Int): Int =
definedExternally\n\n@Suppress("NOTHING_TO_INLINE")\ninternal inline fun isArrayish(o: dynamic) =
js("Kotlin").isArrayish(o)\n","/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n
*\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use this
template:\n*/\n\npublic open class MyException : Exception {\n constructor() : super()\n constructor(message:
String?) : super(message)\n constructor(message: String?, cause: Throwable?) : super(message, cause)\n
constructor(cause: Throwable?) : super(cause)\n}\n *\n\n// TODO: remove primary constructors, make all
secondary KT-22055\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual open class Error
actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual
constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual
constructor(cause: Throwable?) : this(cause)\n}\n\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\npublic actual
open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n
actual constructor(cause: Throwable?) : this(cause)\n}\n\n\npublic actual open class RuntimeException actual
constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(cause)\n}\n\n\npublic actual open class IllegalArgumentException actual constructor(message:
String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n
actual constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) :

```

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this(undefiend, cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message:
String?, cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n}
actual constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) :
this(undefiend, cause)\n}\n\npublic actual open class IndexOutOfBoundsException actual constructor(message:
String?) : RuntimeException(message) {\n  actual constructor() : this(null)\n}\n\npublic actual open class
ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\npublic actual
open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual constructor(message:
String?) : this(message,
null)\n  actual constructor(cause: Throwable?) : this(undefiend, cause)\n}\n\n\npublic actual open class
NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\n  actual
constructor() : this(null)\n}\n}\n\npublic actual open class NullPointerException actual constructor(message: String?)
: RuntimeException(message) {\n  actual constructor() : this(null)\n}\n}\n\npublic actual open class
ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n  actual constructor() :
this(null)\n}\n}\n\npublic actual open class AssertionError\n@SinceKotlin("1.4")\nactual constructor(message:
String?, cause: Throwable?) : Error(message, cause) {\n  actual constructor() : this(null)\n  constructor(message:
String?) : this(message, null)\n  actual constructor(message: Any?) : this(message.toString(), message as?
Throwable)\n}\n}\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message)
{\n  actual constructor() : this(null)\n}\n}\n\n@SinceKotlin("1.3")\n\npublic actual open class ArithmeticException
actual constructor(message: String?) : RuntimeException(message) {\n  actual constructor() :
this(null)\n}\n}\n\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?,
cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual
constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend,
cause)\n}\n}\n\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?,
cause: Throwable?) : RuntimeException(message, cause) {\n  actual constructor() : this(null, null)\n  actual
constructor(message: String?) : this(message, null)\n  actual constructor(cause: Throwable?) : this(undefiend,
cause)\n}\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by
the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n
*\n\n@file:Suppress("UNUSED_PARAMETER")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\n\ninternal
inline fun jsDeleteProperty(obj: Any, property: Any) {\n  js("delete
obj[property]")\n}\n}\n\n@kotlin.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\njs("lhs | rhs").unsafeCast<Int>()", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n\n@SinceKotlin("1.2")\n\npublic actual
fun Double.withSign(sign: Double): Double {\n  val thisSignBit =
js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n  val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n
return if (thisSignBit == newSignBit) this else -this\n}\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns a bit representation of the
specified floating-point value as [Long]\n * according to the IEEE 754 floating-point "double format" bit layout.\n
*/\n\n@SinceKotlin("1.2")\n\n@library("doubleToBits")\n\npublic actual fun Double.toBits(): Long =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout,\n * preserving `NaN` values exact layout.\n

```

```

*^@SinceKotlin("1.2")^@library("doubleToRawBits")^@public actual fun Double.toRawBits(): Long =
definedExternally^@^@**^@ * Returns the [Double] value corresponding to a given bit
representation.^@^@^@SinceKotlin("1.2")^@^@kotlin.internal.InlineOnly^@^@public actual inline fun
Double.Companion.fromBits(bits: Long): Double =
js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()^@^@**^@ * Returns a bit representation of the specified
floating-point value as [Int]^@^@ according to the IEEE 754 floating-point "single format" bit layout.^@^@ * Note
that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,^@^@ * so some [Float] values
may overflow, underflow or loose their accuracy after conversion to bits and back.^@
*^@^@SinceKotlin("1.2")^@^@library("floatToBits")^@^@public actual fun Float.toBits(): Int =
definedExternally^@^@**^@ * Returns a bit representation of the specified floating-point value as [Int]^@^@ according
to the IEEE 754 floating-point "single format" bit layout,^@^@ * preserving `NaN` values exact layout.^@^@ * Note
that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,^@
* so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.^@
*^@^@SinceKotlin("1.2")^@^@library("floatToRawBits")^@^@public actual fun Float.toRawBits(): Int =
definedExternally^@^@**^@ * Returns the [Float] value corresponding to a given bit representation.^@
*^@^@SinceKotlin("1.2")^@^@kotlin.internal.InlineOnly^@^@public actual inline fun Float.Companion.fromBits(bits:
Int): Float =
js("Kotlin").floatFromBits(bits).unsafeCast<Float>()^@^@^@^@Suppress("NOTHING_TO_INLINE")^@^@internal
inline fun Long(low: Int, high: Int) = js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()^@^@internal inline
val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()^@^@internal inline val Long.high: Int get()
= this.asDynamic().getHighBits().unsafeCast<Int>()^@^@,"/*^@ * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.^@ * Use of this source code is governed by the Apache 2.0 license that can be
found
in the license/LICENSE.txt file.^@^@^@^@import kotlin.reflect.KClass^@^@^@PublishedApi^@^@internal fun <T :
Annotation> KClass<*>.findAssociatedObject(@Suppress("UNUSED_PARAMETER") annotationClass:
KClass<T>): Any? {^@ // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.^@
return null^@^@},"/*^@ * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.^@ *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.^@
*^@^@package kotlin.text^@^@**^@ * Returns a string representation of this [Long] value in the specified [radix].^@
*^@ * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.^@
*^@^@SinceKotlin("1.2")^@^@public actual fun Long.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix)),"/*^@ * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.^@ * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.^@
*^@^@package kotlin.js^@^@^@PublishedApi^@^@^@Suppress("NOTHING_TO_INLINE")^@^@^@JsPolyfill("""^@^@nif
(typeof Array.prototype.fill === "undefined") {^@ // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill^@ Object.defineProperty(Array.prototype,
'fill', {^@
value: function (value) {^@ // Steps 1-2.^@ if (this == null) {^@ throw new
TypeError('this is null or not defined');^@ }^@^@ var O = Object(this);^@^@ // Steps 3-5.^@
var len = O.length >>> 0;^@^@ // Steps 6-7.^@ var start = arguments[1];^@ var relativeStart = start
>> 0;^@^@ // Step 8.^@ var k = relativeStart < 0 ?^@ Math.max(len + relativeStart, 0) :^@
Math.min(relativeStart, len);^@^@
// Steps 9-10.^@ var end = arguments[2];^@ var relativeEnd = end === undefined ?^@
len : end >> 0;^@^@ // Step 11.^@ var finalValue = relativeEnd < 0 ?^@
Math.max(len + relativeEnd, 0) :^@ Math.min(relativeEnd, len);^@^@ // Step 12.^@
while (k < finalValue) {^@ O[k] = value;^@ k++;^@ }^@^@ // Step 13.^@ return
O;^@ }^@ }^@};^@^@^@^@Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array,
Float64Array].forEach(function (TypedArray) {^@ if (typeof TypedArray.prototype.fill === "undefined") {^@

```



```
val rangeCategory =
    "\PsY44a41W54UYJZYB14W7XC15WZPsYa84b19Zw8b85Lr7C44brlerrYBZBCZCIBiBiBhCiiBhChiBhiCBhh
    ChiCihBhChCChiBhChiCIBCfHjCiBiBihDhiBhCCihBiBhCCFCEbEbEb7EbGhCk7BixRkiCi4BRb4BhRhCBR
    BCiiBBCiBChiZBCBCiBcGHhChCiBRBxxEYC40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYIIIGFIYGwc
    GmkEmcGFJfI8cYxwFGFGRFGRJFGkkcYkxRm6aFGEgmmEmEGRYRFGxxYFRFRFRGQGIFmIFIGIooGF
    GFGYJ4EFmoIRFlxRlxRFRFxlRxlFIIRxmFIgxxIoxRomFRIRxlFlmGRJfAL86F4mRxmGoRFRFRFRFIIRxGIGR
    xmGxmGmxRxGRFIRJmmFIIGYRmmIRFIRIRFRFIRFxxGFIGmmRoxImxRFRllGmxRJ4aRFGxmIoRFlxRlxR
    FRFIRFxxGIIImoGmmRxoIxoIGRmmIRxlFlmGRJ8FLRxmFFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    Jlc8aRmoIoGFIIIRFRFRlmgmoIooRGRGRxmGFRllGmxRJRyL8IgooyFIIRIRFRFRFRFRmIIxGooRGRIRlxFG
    RJxIFRGIFlIRlRfImGIGxIooRomF8xRxxFIILLFGRJLcFxmIoRFRFRFRxIRFRxxGxxIooGmmRRIRJxxIoYRfllGG
    RaFEGYJRxlFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    FRGYLRfCRBCxxUF8YFMF1WRFYKFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    U44GmmQRJRFefRFGfIGRFRFxmGmoIooGmoIoxRxxIoGIGRxxcx4YJFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    mRomIGIGmxRJRJRyEYRGmmHRGIFmIGmIooGFRJYCgcRmmIFomGmmIomGmlFfmoGooGGIRYFfIGIG
    RYJRFJFEYCRBRBYRGYGIGFGFIIGomGFRCECECEGRGHCCiBCBCRBRBCBCRBRcxBBCRCD CDCD
    CiiRBj7CbCiiRBj7b7iCiiRxiCBRbCbxxCiiRBj7bRMQUY9+V9+VYtOQMY9eY43X44Z1WY54XYMQRqER
    LZ12ELZ12RERaRGHGHR88B88BihBhiChhC8hcZbC8BB8CBCFi8cihBZBC8Z8CLKhCKr8cRZcZc88ZcZc85
    Z8ZcZc1WcZc1WcZcZcZcRcRlLcZcZcZcZc1WLcZ1WZ1WZcZ1WZ1WZ1WZcZcZcRcRcBRcixBBCiBBihC
    CEbhCCChCGhCRY44LCiRRxxCFRkYRGFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    48cRcRcRcRs4Y48EIK1Wc1W12U2cKGooUE88Kqql4c8RFxxGm7bkkFUF4kEkFRFRFRx8cLcFfRfRlLcLc
    LcLcLcLcFRfEFRCFEYFEYFJRfHclmHnnY4EHCEGFKGYRbEbhCCiBECiBhCk7bhCiBihCiBBCBhCRhiBh
    hCCRhiFkkCFIGIIIGIFooGmIcGRL88aRYRIRIFGRYJRGFY14FGJFGYFGIRYFRGIFmoIGIGIYxEJRYFmEFJ
    FRFGmoImoIGRFGFmIRJRyFEFclGIFmlGmlFGFIImGFRllEYFomGo4YlkEoGRFRFRFRFRFRFRFRFRFRFRFRFR
    oG4oGRJRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFRFR
    44U1WY50Z5R46YRFRFRxxQY44a41W54UYJZYB14W7XC15WZ12YYFEFEFRFRFRFRFRFRFRFRFRFRFRFRFR
    RQcR"\n
```

```
    decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 1343)\n    }\n}\n\nprivate fun
categoryValueFrom(code: Int, ch: Int): Int {\n    return when {\n        code < 0x20 -> code\n        code < 0x400 -> if
((ch and 1) == 1) code shr 5 else code and 0x1f\n        else ->\n            when (ch % 3) {\n                2 -> code shr
10\n                1 -> (code shr 5) and 0x1f\n                else -> code and 0x1f\n            }\n    }\n}\n\n/**\n * Returns the
Unicode general category of this character as an Int.\n *\ninternal fun Char.getCategoryValue(): Int {\n    val ch =
this.code\n    val index = binarySearchRange(Category.decodedRangeStart, ch)\n    val start =
Category.decodedRangeStart[index]\n    val code = Category.decodedRangeCategory[index]\n    val value =
categoryValueFrom(code, ch - start)\n    return if (value == 17) CharCategory.UNASSIGNED.value else
value\n}\n}\n\ninternal fun
decodeVarLenBase64(base64: String, fromBase64: IntArray, resultLength: Int): IntArray {\n    val result =
IntArray(resultLength)\n    var index = 0\n    var int = 0\n    var shift = 0\n    for (char in base64) {\n        val sixBit =
fromBase64[char.code]\n        int = int or ((sixBit and 0x1f) shl shift)\n        if (sixBit < 0x20) {\n
result[index++] = int\n            int = 0\n            shift = 0\n        } else {\n            shift += 5\n        }\n    }\n    return
result\n}\n}\n\n"/\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses
elements in the list in-place.\n *\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n    val midPoint = (size
/ 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp =
this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}
```



```

}
}

/*
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 */
package kotlin.text

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
// 37 ranges totally
private object Digit {
    internal val rangeStart = arrayOf(
        0x0030, 0x0660, 0x06f0, 0x07c0, 0x0966, 0x09e6, 0x0a66,
        0x0ae6, 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20, 0x1040,
        0x1090, 0x17e0,
        0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50, 0x1bb0, 0x1c40, 0x1c50, 0xa620,
        0xa8d0, 0xa900, 0xa9d0, 0xa9f0, 0xaa50, 0xabf0, 0xff10,
    )
}

/**
 * Returns the index of the largest element in [array] smaller or equal to the specified [needle],
 * or -1 if [needle] is smaller than the smallest element in [array].
 */
internal fun binarySearchRange(array: IntArray, needle: Int): Int {
    var bottom = 0
    var top = array.size - 1
    var middle = -1
    var value = 0
    while (bottom <= top) {
        middle = (bottom + top) / 2
        value = array[middle]
        if (needle > value)
            bottom = middle + 1
        else if (needle == value)
            return middle
        else
            top = middle - 1
    }
    return middle - (if (needle < value) 1 else 0)
}

/**
 * Returns an integer from 0..9 indicating the digit this character represents,
 * or -1 if this character is not a digit.
 */
internal fun Char.digitToIntImpl(): Int {
    val ch = this.code
    val index = binarySearchRange(Digit.rangeStart, ch)
    val diff = ch - Digit.rangeStart[index]
    return if (diff < 10) diff else -1
}

/**
 * Returns `true` if this character is a digit.
 */
internal fun Char.isDigitImpl(): Boolean {
    return digitToIntImpl() >= 0
}

/*
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 */
package kotlin.text

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt
// See:
// https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
// 222 ranges totally
private object Letter {
    val decodedRangeStart: IntArray
    val decodedRangeLength: IntArray
    val decodedRangeCategory: IntArray

    init {
        val toBase64 =
            "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/"
        val fromBase64 = IntArray(128)
        for (i in toBase64.indices) {
            fromBase64[toBase64[i].code] = i
        }
        // rangeStartDiff.length = 356
        val rangeStartDiff =
            "\hCgBpCQGYHZH5BRpBPPPPPRMP5BPPICPP6BkEPPPPcXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D6E1BIBTiBmBIBP5BhBiBrBvBjBqBnBPRtBiCmCtBIB0BmB5BiB7BmBgEmChBZgCoEoGVpBsFrhBPqKQ2BwBYoFgB4CJuTiEvBuCuDrF5DgEgFIJ1DgFmBQtBsBRGsB+BPiBID1EiJDPRPPPPPPPPGQSQS/DxENVNU+B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPrBP8B7F1B/ErBqC6B7B iBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBIBsD"
        val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 222)
        val start = IntArray(diff.size)
        for (i in diff.indices) {
            if (i == 0) start[i] = diff[i]
            else start[i] = start[i - 1] + diff[i]
        }
        decodedRangeStart = start
        //
        rangeLength.length = 328
        val rangeLength =
            "\aaMBXHYH5BRpBPPPPPRMP5BPPICPPzBDOOPPcXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkBQhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DiCgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8DhBtCqDpFvD1D3E0IrD2EkBjRBDObSb+BPiBIB1EiJDPPPPPPPPPPGPPMNLsBNPNPKcVbBPPCkDPBmBPhDXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPPBPf4FrBjEhBpC3B5BKaWPrBOWck/KsCuLqDHPbPxPsFtEaaqDL"
        decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)
        //
        rangeCategory.length = 959
        val rangeCategory =
            "\GFjgggUHGFFZZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1q1qB1q1q1+Bgii4wDTm74g3KigxqM60q1q1Bq1o1q1BF1qlrqrBZ2q5wprBGFZWWZGHFsjiioLowgmOowjkwCkgoiIk7ligGogioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkWC4gikQ//v+85BkwvoIsgoyI4yguI0whiwEowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHgXgmIoxgqYkwwgk4DkxgmIkgoioBsgssoBgzgyI8g9gL8g9kI0wgvJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0goQkwgoQk3goQHGFHky0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFHGgwgg
    }
}

```

sIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B//q1qBH/qlqq9Bholqq9B1i00a1q10qD1op1HkwmigEigiy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BGWhggzhwBFFhgk4//Bo2jigE8wguI8wguI8wguUog1qoB4qjmIwwi2KgkYHHH4IBgiFWkgIWoghssMmz5smrBZ3q1y50B5sm7gzBtz1smzB5smz50BqzqtmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo2giY0ghiIsgH24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGfK7hsQ4gB"

```
decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n }\n}\n\n * Returns `true` if this character is a letter.\n *\ninternal fun Char.isLetterImpl(): Boolean {\n    return getLetterType() != 0\n}\n}\n\n * Returns `true` if this character is a lower case letter, or it has contributory property `Other_Lowercase`.\n *\ninternal fun Char.isLowerCaseImpl(): Boolean {\n    return getLetterType() == 1 || code.isOtherLowercase()\n}\n}\n\n * Returns `true` if this character is an upper case letter, or it has contributory property `Other_Uppercase`.\n *\ninternal fun Char.isUpperCaseImpl(): Boolean {\n    return getLetterType() == 2 || code.isOtherUppercase()\n}\n}\n\n * Returns\n * - `1` if the character is a lower case letter,\n * - `2` if the character is an upper case letter,\n * - `3` if the character is a letter but not a lower or upper case letter,\n * - `0` otherwise.\n *\nprivate fun Char.getLetterType(): Int {\n    val ch = this.code\n    val index = binarySearchRange(Letter.decodedRangeStart, ch)\n    val rangeStart = Letter.decodedRangeStart[index]\n    val rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n    val code = Letter.decodedRangeCategory[index]\n    if (ch > rangeEnd) {\n        return 0\n    }\n    val lastTwoBits = code and 0x3\n    if (lastTwoBits == 0) { // gap pattern\n        var shift = 2\n        var threshold = rangeStart\n        for (i in 0..1) {\n            threshold += (code shr shift) and 0x7f\n            if (threshold > ch) {\n                return 3\n            }\n            shift += 7\n            threshold += (code shr shift) and 0x7f\n            if (threshold > ch) {\n                return 0\n            }\n            shift += 7\n        }\n        return 3\n    }\n    if (code <= 0x7) {\n        return lastTwoBits\n    }\n    val distance = (ch - rangeStart)\n    val shift = if (code <= 0x1f) distance % 2 else distance\n    return (code shr (2 * shift)) and 0x3\n}\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nprivate object OtherLowercase {\n    internal val otherLowerStart = intArrayOf(\n        0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0, 0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770, 0xa7f8, 0xab5c, \n    )\n    internal val otherLowerLength = intArrayOf(\n        1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13, 16, 26, 2, 2, 1, 2, 4, \n    )\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n    val index = binarySearchRange(OtherLowercase.otherLowerStart, this)\n    return index >= 0 && this < OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\ninternal fun Int.isOtherUppercase(): Boolean {\n    return this in 0x2160..0x216f\n        || this in 0x24b6..0x24cf\n}\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\n\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n *\n @sample samples.collections.Collections.elementAt\n *\npublic actual fun CharSequence.elementAt(index: Int): Char {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }\n}\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
```

license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage  
kotlin.text\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n\n// See:  
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n// 4 ranges totally\n\ninternal fun  
Char.titlecaseCharImpl(): Char {\n val code = this.code\n // Letters repeating <Lu, Lt, Ll> sequence and code of  
the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n return (3 \* ((code + 1) / 3)).toChar()\n }\n // Lower case letters whose title case mapping equivalent is equal  
to the original letter\n if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n return this\n }\n return  
uppercaseChar()\n}\n\n/\*\n \* Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language  
contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the  
license/LICENSE.txt file.\n \*/\n\npackage kotlin.collections\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED  
by the

GenerateStandardLib.kt\n\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n\nimport  
kotlin.js\n\n\*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/\*\*\n \* Returns an element at the given  
[index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n \* \n \* @sample  
samples.collections.Collections.Elements.elementAt\n

```
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int):  
UInt {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAt\n
```

```
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int):  
ULong {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex:  
$index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an  
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAt\n
```

```
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int):  
UByte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $index, size: $size") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is  
out of bounds of this array.\n * \n * @sample  
samples.collections.Collections.Elements.elementAt\n
```

```
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int):  
UShort {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("\nindex: $index, size: $size") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
```

```
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic  
actual fun UIntArray.asList(): List<UInt> {\n    return object : AbstractList<UInt>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UInt): Boolean = this@asList.contains(element)\n        override fun get(index: Int):  
UInt {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: UInt): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as  
Any?) !is UInt) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun  
lastIndexOf(element: UInt): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is  
UInt) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that  
wraps the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
```

```
actual fun ULongArray.asList(): List<ULong> {\n    return object : AbstractList<ULong>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: ULong): Boolean = this@asList.contains(element)\n        override fun get(index: Int):  
ULong {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as  
Any?) !is ULong) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun  
lastIndexOf(element: ULong): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
```

```

ULong) return -1\n        return this@asList.lastIndexOf(element)\n    }\n }\n}\n\n/**\n * Returns a [List] that wraps
the original array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun
ByteArray.asList(): List<UByte> {\n    return object : AbstractList<UByte>(), RandomAccess {\n        override
val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override
fun contains(element: UByte): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UByte
{\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override
fun indexOf(element: UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
UByte) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
UByte): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UByte) return -1\n
return this@asList.lastIndexOf(element)\n        }\n    }\n }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort>
{\n    return object : AbstractList<UShort>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n
        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UShort):
Boolean = this@asList.contains(element)\n        override fun get(index: Int): UShort {\n            AbstractList.checkElementIndex(index, size)\n
            return this@asList[index]\n        }\n        override fun
indexOf(element: UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is
UShort) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element:
UShort): Int {\n            @Suppress("USELESS_CAST")\n            if ((element as Any?) !is UShort) return -1\n
return this@asList.lastIndexOf(element)\n        }\n    }\n }\n }\n}\n\n", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
*/\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n@npackage kotlin.text\n@n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n//
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n@n\n// 9 ranges totally\n/**\n * Returns `true`
if this character is a whitespace.\n */\ninternal fun Char.isWhitespaceImpl(): Boolean {\n    val ch = this.code\n
return ch in 0x0009..0x000d\n        || ch in 0x001c..0x0020\n        || ch == 0x00a0\n        || ch > 0x1000 &&
(\n            ch == 0x1680\n            || ch in 0x2000..0x200a\n            || ch == 0x2028\n            || ch ==
0x2029\n            || ch == 0x202f\n            || ch == 0x205f\n            || ch == 0x3000\n            )\n }\n }\n", /*\n
Copyright 2010-2022
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@npackage kotlin\n\nimport
kotlin.contracts.InvocationKind\nimport
kotlin.contracts.contract\n@n@SinceKotlin("1.8")\n@ExperimentalStdlibApi\npublic actual interface
AutoCloseable {\n    public actual fun close():
Unit\n }\n}\n\n@SinceKotlin("1.8")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline fun
<T : AutoCloseable?, R> T.use(block: (T) -> R): R {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    var exception: Throwable? = null\n    try {\n        return block(this)\n
    } catch (e: Throwable) {\n        exception = e\n        throw e\n    } finally {\n        this.closeFinally(exception)\n
    }\n }\n}\n\n@ExperimentalStdlibApi\n@SinceKotlin("1.8")\n@PublishedApi\ninternal fun
AutoCloseable?.closeFinally(cause: Throwable?) = when {\n    this
== null -> {\n        cause == null -> close()\n        else ->\n            try {\n                close()\n            } catch (closeException:
Throwable) {\n                cause.addSuppressed(closeException)\n            }\n }\n }\n", /*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n@npackage kotlin\n\npublic actual fun interface
Comparator<T> {\n    @JsName("compare")\n    public actual fun compare(a: T, b: T): Int\n }\n }\n", /*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@npackage org.w3c.dom\n\npublic

```

```

external interface ItemArrayLike<out T> {\n    val length: Int\n    fun item(index: Int): T?\n}\n\n/**\n * Returns the
view of this `ItemArrayLike<T>` collection as `List<T>`\n */\npublic
fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n    override val size: Int get() =
this@asList.length\n\n    override fun get(index: Int): T = when (index) {\n        in 0..lastIndex ->
this@asList.item(index).unsafeCast<T>()\n        else -> throw IndexOutOfBoundsException("index $index is not in
range [0..$lastIndex]")\n    }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with
body using dynamic")\npublic annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline
extension function with body using dynamic")\npublic annotation class
nativeSetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with body using
dynamic")\npublic
annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION, PROPERTY)\n\ninternal annotation class
library(public val name: String = "")\n\n@Target(CLASS)\n\ninternal annotation class marker\n\n/**\n * Gives a
declaration (a function, a property or a class) specific name in JavaScript.\n */\n * This may be useful in the
following cases:\n */\n * * There are two functions for which the compiler gives same name in JavaScript, you
can\n */\n * mark one with `@JsName(...)` to prevent the compiler from reporting error.\n */\n * * You are writing a
JavaScript library in Kotlin. The compiler produces mangled names\n */\n * for functions with parameters, which is
unnatural for usual JavaScript developer.\n */\n * You can put `@JsName(...)` on functions you want to be available
from JavaScript.\n */\n * * For some reason you want to rename declaration, e.g. there's common term in JavaScript\n */\n *
for a concept provided by the declaration, which is uncommon in Kotlin.\n */\n * Example:\n */\n * ```
kotlin\n * class Person(val name: String) {\n *     fun hello() {\n *         println("Hello $name!")\n *     }\n * }\n *
@JsName("helloWithGreeting")\n * fun hello(greeting: String) {\n *     println("$greeting $name!")\n * }\n * }\n *
```\n */\n * @property name the name which compiler uses both for declaration itself and for all
references to the declaration.\n */\n * It's required to denote a valid JavaScript identifier.\n */\n
*/\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
PROPERTY_GETTER, PROPERTY_SETTER)\n\npublic actual annotation class JsName(actual val name:
String)\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript library.\n */\n *
The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n */\n * it
will import the declaration via the `require(...)` function.\n */\n * The annotation can be used on top-level external
declarations
(classes, properties, functions) and files.\n */\n * In case of file (which can't be `external`) the following rule applies: all
the declarations in\n */\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to
import a JavaScript object\n */\n * that contain all the declarations from the file.\n */\n * Example:\n */\n * ``` kotlin\n *
@JsModule("jquery")\n * external abstract class JQuery() {\n *     // some declarations here\n * }\n * }\n *
@JsModule("jquery")\n * external fun JQuery(element: Element): JQuery\n * ```\n */\n * @property import name
of a module to import declaration from.\n */\n * It is not interpreted by the Kotlin compiler, it's passed as is
directly to the target module system.\n */\n * @see JsNonModule\n
*/\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n\npublic
annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be used without
module system.\n */\n * By default,
an `external` declaration is available regardless your target module system.\n */\n * However, by applying [JsModule]
annotation you can make a declaration unavailable to *plain* module system.\n */\n * Some JavaScript libraries are
distributed both as a standalone downloadable piece of JavaScript and as a module available\n */\n * as an npm
package.\n */\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the
`@JsNonModule` annotation.\n */\n * For example:\n */\n * ``` kotlin\n * @JsModule("jquery")\n *
@JsNonModule\n * @JsName("$")\n * external abstract class JQuery() {\n *     // some declarations here\n * }\n

```

```

*\n * @JsModule("jquery")\n * @JsNonModule\n * @JsName("$")\n * external fun JQuery(element: Element):
JQuery\n * ```\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS,
PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external`
declarations in a source file.\n *\n * JavaScript
does not have concept of packages (namespaces). They are usually emulated by nested objects.\n * The compiler
turns references to `external` declarations either to plain unprefix names (in case of *plain* modules)\n * or to
plain imports.\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with
this.\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the
`@JsQualifier(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation can't
contain non-`external` declarations.\n *\n * Example:\n *\n * ```\n * @file:JsQualifier("my.jsPackageName")\n *
package some.kotlinPackage\n *\n * external fun foo(x: Int)\n *\n * external fun bar(): String\n * ```\n *\n *
@property value the qualifier to add to the declarations in the generated code.\n *      It must be a sequence of
valid JavaScript identifiers separated by the `.` character.\n *      Examples
of valid qualifiers are: `foo`, `bar.Baz`, `_.$.f`.\n *\n * @see JsModule\n
*/\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class
JsQualifier(val value: String)\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module
exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be
applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of
declarations:\n *\n * * `expect` declarations\n * * inline functions with reified type parameters\n * * suspend
functions\n * * secondary constructors without `@JsName`\n * * extension properties\n * * enum classes\n * *
annotation classes\n *\n * Signatures of exported declarations must only contain `exportable` types:\n *\n * *
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n * * `BooleanArray`, `ByteArray`,
`ShortArray`,
`IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * * Function types with exportable
parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n * * Nullable counterparts of
types above\n * * Unit return type. Must not be nullable\n *\n * This annotation is experimental, meaning that
restrictions mentioned above are subject to change.\n
*/\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin("1.3")\npublic actual annotation class JsExport {\n /*\n * The annotation
prevents exporting the annotated member of an exported class.\n * This annotation is experimental, meaning that
the restrictions mentioned above are subject to change.\n */\n @ExperimentalJsExport\n
@Retention(AnnotationRetention.BINARY)\n @Target(CLASS, PROPERTY, FUNCTION,
CONSTRUCTOR)\n @SinceKotlin("1.8")\n public actual annotation class Ignore\n}\n\n/**\n *
Forces a top-level property to be initialized eagerly, opposed to lazily on the first access to file and/or property.\n
*/\n@ExperimentalStdlibApi\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.PROPER
TY)\n@SinceKotlin("1.6")\n@Deprecated("This annotation is a temporal migration assistance and may be
removed in the future releases, please consider filing an issue about the case where it is needed")\npublic annotation
class EagerInitialization\n\n/**\n * When placed on an external interface or class, requires all its child\n *
interfaces, classes, and objects to be external as well.\n *\n * The compiler mangles identifiers of functions and
properties from non-external interfaces and classes,\n * and doesn't mangle from external ones. Requiring external
interfaces and classes inheritors being external\n * is necessary to avoid non-obvious bugs when identifier naming in
an inheritor doesn't correspond to\n * naming in the base class or interface.\n *\n * Example:\n
*\n * ```\n * kotlin\n * // From kotlin-wrappers\n * external interface Props {\n *     var key: Key? \n * }\n *\n * // User
code\n * @OptIn(ExperimentalStdlibApi::class)\n * @JsExternalInheritorsOnly\n * external interface LayoutProps :
Props {\n *     var layout: Layout? \n * }\n *\n * external interface ComponentProps : LayoutProps // OK\n *\n *
external interface ComponentA : ComponentProps // OK\n *\n * interface ComponentB : ComponentProps //
Compilation error!\n * ```\n *\n * This annotation is experimental, meaning that the restrictions mentioned above are
subject to change.\n

```



```

Inc.\n*\n\npackage kotlin.collections\n*\n * Provides a skeletal implementation of the [MutableList]
interface.\n *\n * @param E the type of elements contained in the list. The list is invariant in its element type.\n
*\npublic actual abstract class AbstractMutableList<E> protected actual constructor() :
AbstractMutableCollection<E>(),
MutableList<E> {\n    protected var modCount: Int = 0\n\n    abstract override fun add(index: Int, element: E):
Unit\n    abstract override fun removeAt(index: Int): E\n    abstract override fun set(index: Int, element: E): E\n\n
/**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always
modified as the result of this operation.\n *\n    actual override fun add(element: E): Boolean {\n
checkIsMutable()\n    add(size, element)\n    return true\n    }\n\n    actual override fun addAll(index: Int,
elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n\n
checkIsMutable()\n    var _index = index\n    var changed = false\n    for (e in elements) {\n
add(_index++, e)\n    changed = true\n    }\n    return changed\n    }\n\n    actual override fun clear() {\n
checkIsMutable()\n    removeRange(0,
size)\n    }\n\n    actual override fun removeAll(elements: Collection<E>): Boolean {\n    checkIsMutable()\n
return removeAll { it in elements }\n    }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean {\n
checkIsMutable()\n    return removeAll { it !in elements }\n    }\n\n\n    actual override fun iterator():
MutableIterator<E> = IteratorImpl()\n\n    actual override fun contains(element: E): Boolean = indexOf(element) >=
0\n\n    actual override fun indexOf(element: E): Int {\n    for (index in 0..lastIndex) {\n    if (get(index) ==
element) {\n    return index\n    }\n    }\n    return -1\n    }\n\n    actual override fun
lastIndexOf(element: E): Int {\n    for (index in lastIndex downTo 0) {\n    if (get(index) == element) {\n
return index\n    }\n    }\n    return -1\n    }\n\n    actual override fun listIterator():
MutableListIterator<E> = listIterator(0)\n\n
    actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n    actual
override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n
/**\n * Removes the range of elements from this list starting from [fromIndex] and ending with but not including
[toIndex].\n *\n    protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n    val iterator =
listIterator(fromIndex)\n    repeat(toIndex - fromIndex) {\n    iterator.next()\n    iterator.remove()\n
}\n    }\n\n
/**\n * Compares this list with another list instance with the ordered structural equality.\n *\n *
@return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n
*\n    override fun equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is List<*>)\n
return false\n    return
AbstractList.orderedEquals(this, other)\n    }\n\n
/**\n * Returns the hash code value for this list.\n *\n    override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n\n\n    private open inner class IteratorImpl :
MutableIterator<E> {\n    /** the index of the item that will be returned on the next call to [next]`() `*\n
protected var index = 0\n    /** the index of the item that was returned on the previous call to [next]`() `*\n
or [ListIterator.previous]`() (for `ListIterator`),\n    * -1 if no such item exists\n    *\n    protected var last = -
1\n\n    override fun hasNext(): Boolean = index < size\n\n    override fun next(): E {\n    if (!hasNext())\n
throw NoSuchElementException()\n    last = index++\n    return get(last)\n    }\n\n    override fun
remove() {\n    check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n\n
removeAt(last)\n    index = last\n    last = -1\n    }\n    }\n\n
/**\n * Implementation of
`MutableListIterator` for abstract lists.\n *\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(),
MutableListIterator<E> {\n    init {\n    AbstractList.checkPositionIndex(index,
this@AbstractMutableList.size)\n    this.index = index\n    }\n\n    override fun hasPrevious(): Boolean =
index > 0\n\n    override fun nextIndex(): Int = index\n\n    override fun previous(): E {\n    if
(!hasPrevious()) throw NoSuchElementException()\n    last = --index\n    return get(last)\n    }\n\n
override fun previousIndex(): Int = index - 1\n\n    override fun add(element: E) {\n    add(index, element)\n
index++\n    last = -1\n    }\n\n    override fun set(element: E) {\n    check(last != -1) { \"Call

```



```

next() or previous() before updating
element value with the iterator." }
    set(last, element)
}

private class SubList<E>(private
val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(),
RandomAccess {
    private var _size: Int = 0
    init {
AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)
        this._size = toIndex - fromIndex
    }
    override fun add(index: Int, element: E) {
        AbstractList.checkPositionIndex(index, _size)
list.add(fromIndex + index, element)
        _size++
    }
    override fun get(index: Int): E {
AbstractList.checkElementIndex(index, _size)
        return list[fromIndex + index]
    }
    override
fun removeAt(index: Int): E {
        AbstractList.checkElementIndex(index, _size)
        val result =
list.removeAt(fromIndex + index)
        _size--
        return
result
    }
    override fun set(index: Int, element: E): E {
        AbstractList.checkElementIndex(index,
_size)
        return list.set(fromIndex + index, element)
    }
    override val size: Int get() = _size
    internal override fun checkIsMutable(): Unit = list.checkIsMutable()
}

internal override fun checkIsMutable(): Unit = list.checkIsMutable()
}

/*
 * Copyright 2010-2020
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 * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
 * Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 * Provides a skeletal implementation of
the [MutableMap] interface.
 * The implementor is required to implement [entries] property, which should
return mutable set of map entries, and [put] function.
 * @param K the type of map keys. The map is invariant
in its key type.
 * @param V the type of map values. The map is
invariant in its value type.
 */
public actual abstract class AbstractMutableMap<K, V> protected actual
constructor() : AbstractMap<K, V>(), MutableMap<K, V> {
    /**
     * A mutable [Map.Entry] shared by
several [Map] implementations.
     */
    internal open class SimpleEntry<K, V>(override val key: K, value: V) :
MutableMap.MutableEntry<K, V> {
        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)
        private var _value = value
        override val value: V get() = _value
        override fun setValue(newValue:
V): V {
            // Should check if the map containing this entry is mutable.
            // However, to not increase
entry memory footprint it might be worthwhile not to check it here and
            // force subclasses that implement
`build`() (freezing) operation to implement their own `MutableEntry`.
        }
        this@AbstractMutableMap.checkIsMutable()
        val oldValue = this._value
        this._value
= newValue
        return oldValue
    }
    override fun hashCode(): Int = entryHashCode(this)
    override fun toString(): String = entryToString(this)
    override fun equals(other: Any?): Boolean =
entryEquals(this, other)
}

// intermediate abstract class to workaround KT-43321
internal abstract
class AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {
    final override fun
contains(element: E): Boolean = containsEntry(element)
    abstract fun containsEntry(element: Map.Entry<K,
V>): Boolean
    final override fun remove(element: E): Boolean = removeEntry(element)
    abstract fun
removeEntry(element: Map.Entry<K, V>): Boolean
}
actual override fun clear() {
    entries.clear()
}
private var _keys: MutableSet<K>? = null
actual override val keys: MutableSet<K>
get() {
    if (_keys == null) {
        _keys = object : AbstractMutableSet<K>()
        {
            override fun add(element: K): Boolean = throw UnsupportedOperationException("Add is not
supported on keys")
            override fun clear() {
                this@AbstractMutableMap.clear()
            }
            override operator fun contains(element: K): Boolean = containsKey(element)
        }
    }
    override operator fun iterator(): MutableIterator<K> {
        val entryIterator = entries.iterator()
        return object : MutableIterator<K> {
            override fun hasNext(): Boolean =
entryIterator.hasNext()
            override fun next(): K = entryIterator.next().key
        }
    }
    override fun remove() = entryIterator.remove()
}
override fun
remove(element: K): Boolean {
    checkIsMutable()
    if (containsKey(element)) {
        this@AbstractMutableMap.remove(element)
        return true
    }
    return false
}
override val size: Int get() =
this@AbstractMutableMap.size
    override fun checkIsMutable(): Unit =

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this@AbstractMutableMap.checkIsMutable()\n        }\n        }\n        return _keys!!\n        }\n\n actual
abstract override fun put(key: K, value: V): V?\n\n actual override fun putAll(from: Map<out K, V>) {\n
checkIsMutable()\n        for ((key, value) in from) {\n            put(key, value)\n        }\n        }\n\n private var _values:
MutableCollection<V>? = null\n\n actual override val values: MutableCollection<V>\n        get() {\n            if
(_values == null) {\n                _values = object : AbstractMutableCollection<V>() {\n                    override fun
add(element: V): Boolean = throw
UnsupportedOperationException("Add is not supported on values")\n                    override fun clear() =
this@AbstractMutableMap.clear()\n                    override operator fun contains(element: V): Boolean =
containsValue(element)\n                    override operator fun iterator(): MutableIterator<V> {\n                        val
entryIterator = entries.iterator()\n                        return object : MutableIterator<V> {\n                            override fun
hasNext(): Boolean = entryIterator.hasNext()\n                            override fun next(): V = entryIterator.next().value\n                            override fun remove() = entryIterator.remove()\n                            }\n                        }\n                    }\n                }\n            }\n\n override val size: Int get() = this@AbstractMutableMap.size\n\n override fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n        }\n        }\n        return _values!!\n        }\n\n actual override fun remove(key: K): V? {\n        checkIsMutable()\n        val iter = entries.iterator()\n        while (iter.hasNext()) {\n            val entry = iter.next()\n            val k = entry.key\n            if (key == k) {\n                val value = entry.value\n                iter.remove()\n                return value\n            }\n        }\n        return null\n    }\n\n /**\n     * This method is called every time when a mutating method is called on this mutable map.\n     *
Mutable maps that are built (frozen) must throw `UnsupportedOperationException`.\n     */\n     internal open fun
checkIsMutable(): Unit {\n    }\n\n /**\n     * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n     */\n     package kotlin.collections\n\n /**\n     * Provides a skeletal implementation of the
[MutableSet] interface.\n     */\n     @param E the
type of elements contained in the set. The set is invariant in its element type.\n     */\n     public actual abstract class
AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n
/**\n     * Compares this set with another set instance with the unordered structural equality.\n     */\n     * @return
`true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n     */\n
override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is Set<*>) return
false\n        return AbstractSet.setEquals(this, other)\n    }\n\n /**\n     * Returns the hash code value for this set.\n     */\n
override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n /**\n     * Copyright 2010-2023
JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n     */\n     package kotlin.collections\n\n /**\n     * Provides a [MutableList] implementation, which uses a resizable
array as its backing storage.\n     */\n     * This implementation doesn't provide a way to manage capacity, as backing JS
array is resizeable itself.\n     * There is no speed advantage to pre-allocating array sizes in JavaScript, so this
implementation does not include any of the\n     * capacity and "growth increment" concepts.\n     */\n     public actual open
class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(),
MutableList<E>, RandomAccess {\n        private companion object {\n            private val Empty =
ArrayList<Nothing>(0).also { it.isReadOnly = true }\n        }\n        private var isReadOnly: Boolean = false\n\n /**\n
     * Creates an empty [ArrayList].\n     */\n     public actual constructor() : this(emptyArray()) {\n    }\n\n /**\n
     * Creates an empty [ArrayList].\n     * @param initialCapacity initial capacity (ignored)\n     */\n     public
actual constructor(initialCapacity: Int) : this(emptyArray()) {\n    }\n\n /**\n     * Creates an [ArrayList] filled from
the [elements] collection.\n     */\n     public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {\n    }\n\n @PublishedApi\n     internal fun build(): List<E> {\n
checkIsMutable()\n        isReadOnly = true\n        return if (size > 0) this else Empty\n    }\n\n /**\n     * Does nothing in
this ArrayList implementation.\n     */\n     public actual fun trimToSize() {\n    }\n\n /**\n     * Does nothing in this ArrayList
implementation.\n     */\n     public actual fun ensureCapacity(minCapacity: Int) {\n    }\n\n actual override val size: Int get()
= array.size\n\n @Suppress("UNCHECKED_CAST")\n     actual override fun get(index: Int): E =

```

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array[rangeCheck(index)] as E\n  actual override fun set(index: Int, element: E): E {\n    checkIsMutable()\n    rangeCheck(index)\n    @Suppress("UNCHECKED_CAST")\n    return array[index].apply { array[index]\n      = element } as E\n  }\n\n  actual override fun add(element: E): Boolean {\n    checkIsMutable()\n    array.asDynamic().push(element)\n    modCount++\n    return true\n  }\n\n  actual override fun add(index: Int, element: E): Unit {\n    checkIsMutable()\n    array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n    modCount++\n  }\n\n  private fun increaseLength(amount: Int): Int {\n    val previous = size\n    array.asDynamic().length = size + amount\n    return previous\n  }\n\n  actual override fun addAll(elements: Collection<E>): Boolean {\n    checkIsMutable()\n    if (elements.isEmpty()) return false\n\n    val offset = increaseLength(elements.size)\n    elements.forEachIndexed { index, element ->\n      array[offset + index] = element\n    }\n    modCount++\n    return true\n  }\n\n  actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n    checkIsMutable()\n    insertionRangeCheck(index)\n\n    if (index == size) return addAll(elements)\n    if (elements.isEmpty()) return false\n\n    val tail = array.asDynamic().splice(index).unsafeCast<Array<E>>()\n    addAll(elements)\n\n    val offset = increaseLength(tail.size)\n    repeat(tail.size) { tailIndex ->\n      array[offset + tailIndex] = tail[tailIndex]\n    }\n    modCount++\n    return true\n  }\n\n  actual override fun removeAt(index: Int): E {\n    checkIsMutable()\n    rangeCheck(index)\n    modCount++\n    return if (index == lastIndex)\n      array.asDynamic().pop()\n    else\n      array.asDynamic().splice(index, 1)[0]\n  }\n\n  actual override fun remove(element: E): Boolean {\n    checkIsMutable()\n    for (index in array.indices)\n      if (array[index] == element) {\n        array.asDynamic().splice(index, 1)\n        modCount++\n\n        return true\n      }\n    return false\n  }\n\n  override fun removeRange(fromIndex: Int, toIndex: Int) {\n    checkIsMutable()\n    modCount++\n    array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n  }\n\n  actual override fun clear() {\n    checkIsMutable()\n    array = emptyArray()\n    modCount++\n  }\n\n  actual override fun indexOf(element: E): Int = array.indexOf(element)\n\n  actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n  override fun toString() = arrayToString(array)\n\n  @Suppress("UNCHECKED_CAST")\n  override fun <T> toArray(array: Array<T>): Array<T> {\n    if (array.size < size) {\n      return toArray() as Array<T>\n    }\n    (this.array as Array<T>).copyInto(array)\n    if (array.size > size) {\n      array[size] = null as T // null-terminate\n    }\n    return array\n  }\n\n  override fun toArray(): Array<Any?> {\n    return js("\\[\\]").slice.call(array)\n  }\n\n  internal override fun checkIsMutable() {\n    if (isReadOnly) throw UnsupportedOperationException()\n  }\n\n  private fun rangeCheck(index: Int) = index.apply {\n    AbstractList.checkElementIndex(index, size)\n  }\n\n  private fun insertionRangeCheck(index: Int) = index.apply {\n    AbstractList.checkPositionIndex(index, size)\n  }\n}"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n  if (getStableSortingIsSupported()) {\n    array.asDynamic().sort(comparison)\n  } else {\n    mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n  }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n  if (getStableSortingIsSupported()) {\n    val comparison = { a: T, b: T -> comparator.compare(a, b) }\n    array.asDynamic().sort(comparison)\n  } else {\n    mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n  }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n  if (fromIndex < toIndex - 1) {\n    mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n  }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n  if (getStableSortingIsSupported()) {\n    val comparison = { a: T, b: T -> a.compareTo(b) }\n    array.asDynamic().sort(comparison)\n  } else {\n    mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n  }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\n\nprivate fun getStableSortingIsSupported(): Boolean {\n  _stableSortingIsSupported?.let

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{ return it }
    _stableSortingIsSupported = false
    val array = js("[]").unsafeCast<Array<Int>>()
    // known implementations may use stable sort for arrays of up to 512 elements
    // so we create slightly more elements to test stability
    for (index in 0 until 600) array.asDynamic().push(index)
    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }
    array.asDynamic().sort(comparison)
    for (index in 1 until array.size) {
        val a = array[index - 1]
        val b = array[index]
        if ((a and 3) == (b and 3) && a >= b) return false
    }
    _stableSortingIsSupported = true
    return true
}

private fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {
    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()
    val result = mergeSort(array, buffer, start, endInclusive, comparator)
    if (result !== array) {
        for (i in start..endInclusive)
            array[i] = result[i]
    }
    // Both start and end are inclusive indices.
    private fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {
        if (start == end)
            return array
        val median = (start + end) / 2
        val left = mergeSort(array, buffer, start, median, comparator)
        val right = mergeSort(array, buffer, median + 1, end, comparator)
        val target = if (left === buffer) array else buffer
        // Merge.
        var leftIndex = start
        var rightIndex = median + 1
        for (i in start..end) {
            when {
                leftIndex <= median && rightIndex <= end -> {
                    val leftValue = left[leftIndex]
                    val rightValue = right[rightIndex]
                    if (comparator.compare(leftValue, rightValue) <= 0) {
                        target[i] = leftValue
                        leftIndex++
                    } else {
                        target[i] = rightValue
                        rightIndex++
                    }
                }
                leftIndex <= median -> {
                    target[i] = left[leftIndex]
                    leftIndex++
                }
                else /* rightIndex <= end */ -> {
                    target[i] = right[rightIndex]
                    rightIndex++
                }
            }
        }
        Unit // TODO: Fix KT-31506
    }
}
return target
}

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 */
package
kotlin.collections
@OptIn(ExperimentalUnsignedTypes::class)
@SinceKotlin("1.3")
@kotlin.js.JsName("contentDeepHashCodeImpl")
internal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {
    if (this == null) return 0
    var result = 1
    for (element in this) {
        val elementHash = when {
            element == null -> 0
            isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()
            element is UByteArray -> element.contentHashCode()
            element is UShortArray -> element.contentHashCode()
            element is UIntArray -> element.contentHashCode()
            element is ULongArray -> element.contentHashCode()
            else -> element.hashCode()
        }
        result = 31 * result + elementHash
    }
    return result
}

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 */
package kotlin.collections
internal interface EqualityComparator {
    /**
     * Subclasses must override to return a value indicating whether or not two keys or values are equal.
     */
    abstract fun equals(value1: Any?, value2: Any?): Boolean

    /**
     * Subclasses must override to return the hash code of a given key.
     */
    abstract fun getHashCode(value: Any?): Int
}

object hashCode : EqualityComparator {
    override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2
    override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0
}

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 */
package kotlin.collections
nimport kotlin.collections.MutableMap.MutableEntry
/**
 * Hash table based implementation of the [MutableMap] interface.
 *
 * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.
 *
 * Classes that extend HashMap and implement `build()` (freezing) operation have to make sure mutating methods check `checkIsMutable`.
 */
public actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {
    private inner class EntrySet :

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AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n    override fun add(element: MutableEntry<K, V>):
Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n    override fun clear()
{\n        this@HashMap.clear()\n    }\n\n    override fun containsEntry(element: Map.Entry<K, V>): Boolean
= this@HashMap.containsEntry(element)\n\n    override operator fun iterator():
MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n    override fun removeEntry(element:
Map.Entry<K, V>): Boolean {\n        if (contains(element)) {\n            this@HashMap.remove(element.key)\n
        }\n        return true\n    }\n\n    return false\n    }\n\n    override val size: Int get() =
this@HashMap.size\n    }\n\n\n    /**\n        * Internal implementation of the map: either string-based or hashCode-based.\n        *^\n        private val internalMap:
InternalMap<K, V>\n\n        private val equality: EqualityComparator\n\n        internal constructor(internalMap:
InternalMap<K, V>) : super() {\n            this.internalMap = internalMap\n            this.equality = internalMap.equality\n
        }\n\n        /**\n        * Constructs an empty [HashMap] instance.\n        *^\n        actual constructor() :
this(InternalHashMap(EqualityComparator.HashCode))\n\n        /**\n        * Constructs an empty [HashMap]
instance.\n        *^\n        * @param initialCapacity the initial capacity (ignored)\n        * @param loadFactor the load
factor (ignored)\n        *^\n        * @throws IllegalArgumentException if the initial capacity or load factor are negative\n
        *^\n        actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n            // This implementation of HashMap
has no need of load factors or capacities.\n            require(initialCapacity >= 0)
        }\n        {\n            "Negative initial capacity: $initialCapacity"\n        }\n        require(loadFactor >= 0) {\n            "Non-positive load factor:
$loadFactor"\n        }\n        }\n\n        actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n        /**\n        *
Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n        *^\n        actual
constructor(original: Map<out K, V>) : this() {\n            this.putAll(original)\n        }\n\n        actual override fun clear() {\n
            internalMap.clear()\n            // structureChanged(this)\n        }\n\n        actual override fun containsKey(key: K): Boolean
= internalMap.containsKey()\n\n        actual override fun containsValue(value: V): Boolean = internalMap.any {\n
            equality.equals(it.value, value)\n        }\n\n        private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n        actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n            get() {\n                if
(_entries == null) {\n                    _entries = createEntrySet()\n                }\n                return _entries!!\n            }\n\n        internal open fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n        actual override operator fun get(key: K): V? =
internalMap.get(key)\n\n        actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n        actual
override fun remove(key: K): V? = internalMap.remove(key)\n\n        actual override val size: Int get() =
internalMap.size\n    }\n\n\n    /**\n        * Constructs the specialized implementation of [HashMap] with [String] keys, which
stores the keys as properties of\n        *^\n        JS object without hashing them.\n        *^\n        public fun <V> stringMapOf(vararg pairs:
Pair<String, V>): HashMap<String, V> {\n            return HashMap<String,
V>(InternalStringMap(EqualityComparator.HashCode)).apply {\n                putAll(pairs)\n            }\n        }\n    }\n\n\n    /**\n        * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n        * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n        *^\n        * Based on GWT HashSet\n        * Copyright 2008 Google Inc.\n        *^\n        \n        package
kotlin.collections\n\n        /**\n        * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n
        *^\n        // Classes that extend HashSet and implement `build()` (freezing) operation\n        // have to make sure mutating
methods check `checkIsMutable`.\n        *^\n        public actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E>
{\n\n            internal val map: HashMap<E, Any>\n\n            /**\n            * Constructs a new empty [HashSet].\n            *^\n
            actual constructor() {\n                map = HashMap<E, Any>()\n            }\n\n            /**\n            * Constructs a new [HashSet] filled with the
elements of the specified collection.\n            *^\n            actual constructor(elements: Collection<E>) {\n                map =
HashMap<E, Any>(elements.size)\n                addAll(elements)\n            }\n\n            /**\n            * Constructs a new empty
[HashSet].\n            *^\n            * @param initialCapacity the initial capacity (ignored)\n            * @param loadFactor the
load factor (ignored)\n            *^\n            * @throws IllegalArgumentException if the initial capacity or load factor are
negative\n            *^\n            actual constructor(initialCapacity: Int, loadFactor: Float) {\n                map = HashMap<E,
Any>(initialCapacity, loadFactor)\n            }\n\n            actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n        }\n
    }

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/**\n * Protected constructor to specify the underlying map. This is used by\n * LinkedHashSet.\n\n *
@param map underlying map to use.\n */\n internal constructor(map: HashMap<E, Any>) {\n this.map =
map\n }\n\n actual override fun add(element: E): Boolean {\n val old = map.put(element, this)\n return
old == null\n }\n\n actual override fun clear() {\n map.clear()\n }\n\n// public override fun clone(): Any
{\n// return HashSet<E>(this)\n// }\n\n actual override operator fun contains(element: E): Boolean =
map.containsKey(element)\n\n actual override fun isEmpty():
Boolean = map.isEmpty()\n\n actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n actual
override fun remove(element: E): Boolean = map.remove(element) != null\n\n actual override val size: Int get() =
map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\n\npublic fun
stringSetOf(vararg elements: String): HashSet<String> {\n return HashSet(stringMapOf<Any>()).apply {
addAll(elements) }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n * Based on GWT InternalHashMap\n * Copyright 2008 Google Inc.\n\n
*/\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n
* A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n */\n
*\n * Implementation notes:\n */\n\n * A key's hashCode is the index in backingMap which should contain that
key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all
entries whose\n * keys share the same hash.\n */\n\ninternal class InternalHashMap<K, V>(override val equality:
EqualityComparator) : InternalMap<K, V> {\n\n private var backingMap: dynamic = createJsMap()\n override
var size: Int = 0\n private set\n\n override fun put(key: K, value: V): V? {\n val hashCode =
equality.getHashCode(key)\n val chainOrEntry = getChainOrEntryOrNull(hashCode)\n if (chainOrEntry
== null) {\n // This is a new chain, put it to the map.\n backingMap[hashCode] = SimpleEntry(key,
value)\n } else {\n if (chainOrEntry !is
Array<*>) {\n // It is an entry\n val entry: SimpleEntry<K, V> = chainOrEntry\n if
(equality.equals(entry.key, key)) {\n return entry.setValue(value)\n } else {\n
backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n size++\n return null\n
}\n } else {\n // Chain already exists, perhaps key also exists.\n val chain:
Array<MutableEntry<K, V>> = chainOrEntry\n val entry = chain.findEntryInChain(key)\n if
(entry != null) {\n return entry.setValue(value)\n }\n }\n }\n }\n\n chain.asDynamic().push(SimpleEntry(key, value))\n }\n }\n size++\n\n// structureChanged(host)\n
return null\n }\n\n override fun remove(key: K): V? {\n val hashCode = equality.getHashCode(key)\n
val
chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n
jsDeleteProperty(backingMap, hashCode)\n size--\n return entry.value\n } else {\n
return null\n }\n } else {\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n for
(index in chain.indices) {\n val entry = chain[index]\n if (equality.equals(key, entry.key)) {\n
if (chain.size == 1) {\n chain.asDynamic().length = 0\n // remove the whole
array\n jsDeleteProperty(backingMap, hashCode)\n } else {\n // splice out
the entry we're removing\n chain.asDynamic().splice(index, 1)\n }\n }\n size--\n\n// structureChanged(host)\n
return entry.value\n }\n }\n }\n }\n return null\n }\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n
}\n\n override fun contains(key: K): Boolean = getEntry(key) != null\n\n override fun get(key: K): V? =
getEntry(key)?.value\n\n private fun getEntry(key: K): MutableEntry<K, V>? {\n val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n return

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entry\n    } else {\n        return null\n    }\n    } else {\n        val chain: Array<MutableEntry<K,
V>> = chainOrEntry\n        return chain.findEntryInChain(key)\n    }\n}\n\n private fun
Array<MutableEntry<K,
V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n    firstOrNull { entry -> equality.equals(entry.key,
key) }\n\n override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n    return object :
MutableIterator<MutableEntry<K, V>> {\n        var state = -1 // -1 not ready, 0 - ready, 1 - done\n        val
keys: Array<String> = js("Object").keys(backingMap)\n        var keyIndex = -1\n        var chainOrEntry:
dynamic = null\n        var isChain = false\n        var itemIndex = -1\n        var lastEntry: MutableEntry<K,
V>? = null\n\n        private fun computeNext(): Int {\n            if (chainOrEntry != null && isChain) {\n
                val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n                if
(++itemIndex < chainSize)\n                    return 0\n            }\n            if (++keyIndex < keys.size) {\n
                chainOrEntry = backingMap[keys[keyIndex]]\n                isChain = chainOrEntry is Array<*>\n                itemIndex = 0\n                return 0\n            }
        }\n    else {\n        chainOrEntry = null\n        return 1\n    }\n}\n\n override fun
hasNext(): Boolean {\n    if (state == -1)\n        state = computeNext()\n    return state == 0\n}\n\n override fun next(): MutableEntry<K, V> {\n    if (!hasNext()) throw
NoSuchElementException()\n    val lastEntry = if (isChain) {\n        chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n    } else {\n        chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n    }\n    this.lastEntry = lastEntry\n    state = -1\n    return lastEntry\n}\n\n override fun remove() {\n    checkNotNull(lastEntry)\n        this@InternalHashMap.remove(lastEntry!!.key)\n        lastEntry = null\n        // the chain
being iterated just got modified by InternalHashMap.remove\n        itemIndex--\n    }\n}\n\n private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n    val chainOrEntry =
backingMap[hashCode]\n    return if (chainOrEntry === undefined) null else chainOrEntry\n}\n\n"/**\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashMap].\n */\n\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality:
EqualityComparator\n    val size: Int\n    operator fun contains(key: K): Boolean\n    operator fun
get(key: K): V?\n    fun put(key: K, value: V): V?\n    fun remove(key: K): V?\n    fun clear(): Unit\n    fun
createJsMap(): dynamic {\n        val result = js("Object.create(null)")\n        // force to switch object representation
to dictionary mode\n        result["foo"] = 1\n        jsDeleteProperty(result, "foo")\n        return result\n    }\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is
string.\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n *
because we want to have it erased to Any? in order not to generate type-safe override
bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\n\ninternal class InternalStringMap<K,
V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n    private var backingMap: dynamic =
createJsMap()\n    override var size: Int = 0\n    private set\n\n    /**\n     * A mod count to track 'value'
replacements in map to ensure that the 'value' that we have in the\n     * iterator entry is guaranteed to be still
correct.\n     * This is to optimize for the common scenario where the values are not modified during\n     *
iterations where the entries are never stale.\n     */\n\n    private var valueMod: Int = 0\n    override operator fun
contains(key: K): Boolean {\n        if (key !is String) return false\n        return backingMap[key] !== undefined\n    }\n\n    override operator fun get(key: K): V? {\n        if (key !is String) return null\n        val value =
backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>()\n    }\n}

```

```

else null\n    }\n\n\n    override fun put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue =
backingMap[key]\n        backingMap[key] = value\n\n        if (oldValue === undefined) {\n            size++\n\n//
structureChanged(host)\n            return null\n        } else {\n\n//            valueMod++\n            return
oldValue.unsafeCast<V>()\n        }\n    }\n\n\n    override fun remove(key: K): V? {\n        if (key !is String) return
null\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap,
key)\n            size--\n\n//            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n\n//
valueMod++\n            return null\n        }\n    }\n\n\n\n    override fun clear() {\n        backingMap = createJsMap()\n
size = 0\n    }\n\n\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n        return object
: MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> =
js("Object").keys(backingMap)\n            private val iterator = keys.iterator()\n            private var lastKey: String? =
null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n\n            override fun next():
MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n\n                @Suppress("UNCHECKED_CAST")\n                return newMapEntry(key as K)\n            }\n\n            override
fun remove() {\n                @Suppress("UNCHECKED_CAST")\n                this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n            }\n        }\n\n\n        private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n            override val key: K get() =
key\n            override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n            override fun
setValue(newValue: V): V = this@InternalStringMap.put(key,
newValue).unsafeCast<V>()\n\n            override fun hashCode(): Int = AbstractMap.entryHashCode(this)\n\n            override fun toString(): String = AbstractMap.entryToString(this)\n            override fun equals(other: Any?): Boolean
= AbstractMap.entryEquals(this, other)\n        }\n    }\n\n\n    /**\n     * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n     */\n\n    /**\n     * Based on GWT LinkedHashMap\n     * Copyright 2008 Google
Inc.\n     */\n\n    package kotlin.collections\n\n    import kotlin.collections.MutableMap.MutableEntry\n\n    /**\n     * Hash table
based implementation of the [MutableMap] interface, which additionally preserves the insertion order\n     * of entries
during the iteration.\n     */\n\n    /**\n     * The insertion order is preserved by maintaining a doubly-linked list of all of its
entries.\n     */\n\n    /**\n     * public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K,
V> {\n     *     private companion object {\n     *         private val Empty = LinkedHashMap<Nothing, Nothing>(0).also {
it.isReadOnly = true }\n     *     }\n     *     /**\n     *      * The entry we use includes next/prev pointers for a doubly-linked
circular\n     *      * list with a head node. This reduces the special cases we have to deal with\n     *      * in the list
operations.\n     *      * Note that we duplicate the key from the underlying hash map so we can find\n     *      * the eldest
entry. The alternative would have been to modify HashMap so more\n     *      * of the code was directly usable here, but
this would have added some\n     *      * overhead to HashMap, or to reimplement most of the HashMap code here with\n     *
small modifications. Paying a small storage cost only if you use\n     *      * LinkedHashMap and minimizing code size
seemed like a better tradeoff\n     *      */\n     *     private inner class ChainEntry<K, V>(key: K, value: V) :
AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n     *         internal var next: ChainEntry<K, V>? =
null\n     *         internal var prev: ChainEntry<K, V>? = null\n     *         override fun setValue(newValue: V): V {\n     *
this@LinkedHashMap.checkIsMutable()\n     *             return super.setValue(newValue)\n     *         }\n     *     }\n     *     private inner
class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n     *         private inner class EntryIterator :
MutableIterator<MutableEntry<K, V>> {\n     *             // The last entry that was returned from this iterator.\n     *
private var last: ChainEntry<K, V>? = null\n     *             // The next entry to return from this iterator.\n     *             private
var next: ChainEntry<K, V>? = null\n     *             init {\n     *                 next = head\n     *             }\n     *
recordLastKnownStructure(map, this)\n     *             }\n     *             override fun hasNext(): Boolean {\n     *                 return
next !== null\n     *             }\n     *             override fun next(): MutableEntry<K, V> {\n     *                 \n     *
checkStructuralChange(map, this)\n     *                 if (!hasNext())\n     *                     throw NoSuchElementException()\n     *                 val current = next!!\n     *                 last = current\n     *                 next =
current.next.takeIf { it !== head }\n     *                 return current\n     *             }\n     *             override fun remove() {\n     *
check(last != null)\n     *                 this@EntrySet.checkIsMutable()\n     *                 checkStructuralChange(map, this)\n     *

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        last!!.remove()\n        map.remove(last!!.key)\n//        recordLastKnownStructure(map, this)\n        last = null\n    }\n    }\n    override fun add(element: MutableEntry<K, V>): Boolean = throw\n    UnsupportedOperationException("Add is not supported on entries")\n    override fun clear() {\n    this@LinkedHashMap.clear()\n    }\n    override fun containsEntry(element: Map.Entry<K, V>): Boolean =\n    this@LinkedHashMap.containsEntry(element)\n    override operator fun iterator():\n    MutableIterator<MutableEntry<K, V>> = EntryIterator()\n    override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n        checkIsMutable()\n        if\n        (contains(element)) {\n            this@LinkedHashMap.remove(element.key)\n            return true\n        }\n        return false\n    }\n    override val size: Int get() = this@LinkedHashMap.size\n    override fun\n    checkIsMutable(): Unit = this@LinkedHashMap.checkIsMutable()\n    }\n    }\n    /*\n    * The head of the insert order\n    chain, which is a doubly-linked circular\n    * list.\n    *\n    * The most recently inserted node is at the end of the\n    chain, ie.\n    * chain.prev.\n    */\n    private var head: ChainEntry<K, V>? = null\n    /**\n    * Add this node to\n    the end of the chain.\n    */\n    private fun ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev == null)\n        val _head = head\n        if (_head == null) {\n            head = this\n            next\n            = this\n            prev = this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n            next = _head\n            // Update my new siblings: current head and\n            old tail\n            _head.prev = this\n            _tail.next = this\n        }\n    }\n    /**\n    * Remove this node from the\n    chain it is a part of.\n    */\n    private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if\n            this is single element, remove head\n            head = null\n        } else {\n            if (head === this) {\n                // if\n                this is first element, move head to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next = null\n        prev = null\n    }\n    /*\n    * The hashmap that keeps track of\n    our entries and the chain. Note that we\n    * duplicate the key here to eliminate\n    changes to HashMap and minimize the\n    * code here, at the expense of additional space.\n    */\n    private val map:\n    HashMap<K, ChainEntry<K, V>>\n    private var readOnly: Boolean = false\n    /**\n    * Constructs an\n    empty [LinkedHashMap] instance.\n    */\n    actual constructor(): super() {\n        map = HashMap<K,\n    ChainEntry<K, V>>()\n    }\n    internal constructor(backingMap: HashMap<K, Any>): super() {\n    @Suppress("UNCHECKED_CAST") // expected to work due to erasure\n        map = backingMap as\n    HashMap<K, ChainEntry<K, V>>\n    }\n    /**\n    * Constructs an empty [LinkedHashMap] instance.\n    *\n    * @param initialCapacity the initial capacity (ignored)\n    * @param loadFactor the load factor (ignored)\n    *\n    * @throws IllegalArgumentException if the initial capacity or load factor are negative\n    */\n    actual\n    constructor(initialCapacity: Int, loadFactor: Float): super(initialCapacity, loadFactor) {\n        map = HashMap<K,\n    ChainEntry<K, V>>()\n    }\n    actual\n    constructor(initialCapacity: Int): this(initialCapacity, 0.0f)\n    }\n    /**\n    * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n    */\n    actual\n    constructor(original: Map<out K, V>): {\n        map = HashMap<K, ChainEntry<K, V>>()\n    }\n    this.putAll(original)\n    }\n    @PublishedApi\n    internal fun build(): Map<K, V> {\n        checkIsMutable()\n        readOnly = true\n        @Suppress("UNCHECKED_CAST")\n        return if (size > 0) this else (Empty as\n    Map<K, V>)\n    }\n    actual\n    override fun clear() {\n        checkIsMutable()\n        map.clear()\n        head = null\n    }\n    }\n    //\n    override fun clone(): Any {\n        return LinkedHashMap(this)\n    }\n    }\n    }\n    actual\n    override fun\n    containsKey(key: K): Boolean = map.containsKey(key)\n    }\n    actual\n    override fun\n    containsValue(value: V): Boolean\n    {\n        var node: ChainEntry<K, V> = head?: return false\n        do {\n            if (node.value == value) {\n                return true\n            }\n            node = node.next!!\n        }\n        while (node != head)\n        return false\n    }\n    }\n    }\n    internal\n    override fun\n    createEntrySet():\n    MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n    actual\n    override\n    operator fun\n    get(key: K): V? =\n    map.get(key)?.value\n    }\n    actual\n    override\n    fun\n    put(key: K, value: V): V? {\n        checkIsMutable()\n        val old =\n    map.get(key)\n        if (old == null) {\n            val newEntry = ChainEntry(key, value)\n            map.put(key,\n    newEntry)\n            newEntry.addToEnd()\n            return null\n        } else {\n            return old.setValue(value)\n        }\n    }\n    }\n    actual\n    override\n    fun\n    remove(key: K): V? {\n        checkIsMutable()\n        val entry =

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map.remove(key)\n    if (entry != null) {\n        entry.remove()\n        return entry.value\n    }\n    return
null\n }\n\n actual override val
size: Int get() = map.size\n\n internal override fun checkIsMutable() {\n    if (isReadOnly) throw
UnsupportedOperationException()\n }\n\n/**\n * Constructs the specialized implementation of
[LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n
*\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n    return
LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}\n\n", /*\n * Copyright 2010-2023
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n * Based on GWT LinkedHashMap\n
*\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet]
interface, backed by a [LinkedHashMap] instance.\n *\n * This implementation preserves the insertion order of
elements during the iteration.\n
*\npublic actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E> {\n    private companion object {\n
        private val Empty = LinkedHashMap<Nothing>(0).also {\n            (it.map as LinkedHashMap<Nothing,
Any>).build()\n        }\n    }\n\n    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n    /**\n
 * Constructs a new empty [LinkedHashSet].\n
 *\n    actual constructor() : super(LinkedHashMap<E, Any>())\n\n    /**\n
 * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\n
 *\n    actual
constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\n        addAll(elements)\n    }\n\n
    /**\n
 * Constructs a new empty [LinkedHashSet].\n
 *\n    * @param initialCapacity the initial capacity
(ignored)\n
 * @param loadFactor the load factor (ignored)\n
 *\n    * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n
 *\n    actual constructor(initialCapacity:
Int, loadFactor: Float) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n    actual
constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    @PublishedApi\n    internal fun build(): Set<E>
{\n        (map as LinkedHashMap<E, Any>).build()\n        return if (size > 0) this else Empty\n    }\n\n    internal
override fun checkIsMutable(): Unit = map.checkIsMutable()\n\n    // public override fun clone(): Any {\n//
return LinkedHashMap(this)\n//    }\n\n\n/**\n * Creates a new instance of the specialized implementation of
[LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object
without hashing them.\n
*\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashMap<String> {\n    return
LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n\n", /*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source
code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.contracts.*\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\", errorSince =
\"1.9\")\n@Deprecated(\"Synchronization on any object is not supported in Kotlin/JS\",
ReplaceWith(\"run(block)\"))\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic
inline fun <R> synchronized(lock: Any, block: () -> R): R {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n
open fun println() {\n    print(\"\\n\")\n }\n\n open fun println(message: Any?) {\n    print(message)\n
println()\n }\n\n abstract
fun print(message: Any?)\n\n open fun flush() {\n}\n\n\n/** JsName used to make the declaration available
outside of module to test it *\n@JsName(\"NodeJsOutput\")\ninternal class NodeJsOutput(val outputStream:
dynamic) : BaseOutput() {\n    override fun print(message: Any?) {\n        // TODO: Using local variable because of
bug in block decomposition lowering in IR backend\n        val messageString = String(message)\n
outputStream.write(messageString)\n    }\n}\n\n\n/** JsName used to make the declaration available outside of
module to test it *\n@JsName(\"OutputToConsoleLog\")\ninternal class OutputToConsoleLog : BaseOutput() {\n
override fun print(message: Any?) {\n    console.log(message)\n }\n\n override fun println(message: Any?)
{\n    console.log(message)\n }\n\n override fun println() {\n    console.log(\"\\n\")\n }\n}\n\n\n/** JsName

```

used to make the declaration available outside of module to test it and use at try.kotl.in

```
*\n@jsName("BufferedOutput")\ninternal
open class BufferedOutput : BaseOutput() {\n    var buffer = ""\n    override fun print(message: Any?) {\n        buffer += String(message)\n    }\n    override fun flush() {\n        buffer = ""\n    }\n}\n/** JsName used to
make the declaration available outside of module to test it
*\n@jsName("BufferedOutputToConsoleLog")\ninternal class BufferedOutputToConsoleLog : BufferedOutput()
{\n    override fun print(message: Any?) {\n        var s = String(message)\n        val i = s.nativeLastIndexOf("\n",
0)\n        if (i >= 0) {\n            buffer += s.substring(0, i)\n            flush()\n            s = s.substring(i + 1)\n        }\n        buffer += s\n    }\n    override fun flush() {\n        console.log(buffer)\n        buffer = ""\n    }\n}\n/** JsName
used to make the declaration available outside of module to test it and use at try.kotl.in
*\n@jsName("output")\ninternal var output = run {\n    val isNode: Boolean = js("typeof
process !== 'undefined' && process.versions && !process.versions.node")\n    if (isNode)
NodeJsOutput(js("process.stdout")) else
BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String =
js("String")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n    output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic
actual fun println(message: Any?) {\n    output.println(message)\n}\n\n/** Prints the given [message] to the standard
output stream. */\npublic actual fun print(message: Any?) {\n    output.print(message)\n}\n\n@SinceKotlin("1.6")\npublic actual fun readln(): String = throw
UnsupportedOperationException("readln is not supported in Kotlin/JS")\n\n@SinceKotlin("1.6")\npublic actual
fun readlnOrNull(): String? = throw UnsupportedOperationException("readlnOrNull is not supported in
Kotlin/JS"), /*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal
actual class SafeContinuation<in T>\ninternal actual constructor(\n    private val delegate: Continuation<T>,\n    initialResult: Any?\n) : Continuation<T> {\n    @PublishedApi\n    internal actual constructor(delegate:
Continuation<T>) : this(delegate, UNDECIDED)\n\n    public actual override val context: CoroutineContext\n    get() = delegate.context\n\n    private var result: Any? = initialResult\n\n    public actual override fun
resumeWith(result: Result<T>) {\n        val cur = this.result\n        when {\n            cur === UNDECIDED -> {\n                this.result = result.value\n            }\n            cur === COROUTINE_SUSPENDED -> {\n                this.result = RESUMED\n                delegate.resumeWith(result)\n            }\n            else -> throw IllegalStateException("Already resumed")\n        }\n    }\n\n    @PublishedApi\n    internal actual fun getOrThrow(): Any? {\n        if (result === UNDECIDED) {\n            result = COROUTINE_SUSPENDED\n            return COROUTINE_SUSPENDED\n        }\n        val result =
this.result\n        return when {\n            result === RESUMED -> COROUTINE_SUSPENDED // already called
continuation, indicate COROUTINE_SUSPENDED upstream\n            result is Result.Failure -> throw
result.exception\n            else -> result // either COROUTINE_SUSPENDED or data\n        }\n    }\n}\n\n/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual open class CancellationException :
IllegalStateException {\n    actual constructor(): super()\n    actual constructor(message: String?): super(message)\n    constructor(message: String?, cause: Throwable?): super(message, cause)\n    constructor(cause: Throwable?):
super(cause)\n}\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
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EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result -> \n    result.getOrThrow()\n}"/**\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date)
to Kotlin.\n */\n@Suppress("\nNOT_DOCUMENTED\n")\npublic external class Date() {\n    public
constructor(milliseconds: Number)\n\n    public constructor(dateString: String)\n\n    public constructor(year: Int,
month: Int)\n\n    public constructor(year: Int, month: Int, day: Int)\n\n    public constructor(year: Int, month: Int,
day: Int, hour: Int)\n\n    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n    public
constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n    public constructor(year: Int,
month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n    public fun getDate(): Int\n\n    public fun
getDay(): Int\n\n    public fun getFullYear(): Int\n\n    public fun getHours():
Int\n\n    public fun getMilliseconds(): Int\n\n    public fun getMinutes(): Int\n\n    public fun getMonth(): Int\n\n    public fun
getSeconds(): Int\n\n    public fun getTime(): Double\n\n    public fun getTimezoneOffset(): Int\n\n    public fun
getUTCDate(): Int\n\n    public fun getUTCDay(): Int\n\n    public fun getUTCFullYear(): Int\n\n    public fun
getUTCHours(): Int\n\n    public fun getUTCMilliseconds(): Int\n\n    public fun getUTCMinutes():
Int\n\n    public fun getUTCMonth(): Int\n\n    public fun getUTCSeconds(): Int\n\n    public fun toDateString():
String\n\n    public fun toISOString(): String\n\n    public fun toJSON(): Json\n\n    public fun
toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally):
String\n\n    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun
toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally):
String\n\n    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n    public fun
toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions =
definedExternally): String\n\n    public fun toLocaleTimeString(locales: String, options: LocaleOptions =
definedExternally): String\n\n    public fun toTimeString(): String\n\n    public fun toUTCString(): String\n\n    public companion object {\n        public fun now(): Double\n\n        public fun parse(dateString: String): Double\n\n        public fun UTC(year: Int, month: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int):
Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n        public fun UTC(year: Int,
month: Int, day: Int, hour: Int, minute: Int): Double\n\n        public fun UTC(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int): Double\n\n        public fun UTC(year: Int,
month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n    }\n\n    public interface
LocaleOptions {\n        public var localeMatcher: String?\n\n        public var timeZone: String?\n\n        public var
hour12: Boolean?\n\n        public var formatMatcher: String?\n\n        public var weekday: String?\n\n        public var
era: String?\n\n        public var year: String?\n\n        public var month: String?\n\n        public var day: String?\n\n        public var
hour: String?\n\n        public var minute: String?\n\n        public var second: String?\n\n        public var
timeZoneName: String?\n    }\n\n    public inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit):
Date.LocaleOptions {\n        val result = js("new Object()\n").unsafeCast<Date.LocaleOptions>()\n        init(result)\n        return result\n    }"/**\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.Document\nimport org.w3c.dom.Element\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendElement as
newAppendElement\nimport kotlinx.dom.createElement as newCreateElement\n\n/**\n * Creates a new element
with the specified [name].\n */\n * The element is initialized with the specified [init] function.\n
*/\n@LowPriorityInOverloadResolution\n@Deprecated(\n    message = "\nThis API is moved to another package,
use 'kotlinx.dom.createElement' instead.\n",\n    replaceWith = ReplaceWith("\nthis.createElement(name, init)\n",
"\nkotlinx.dom.createElement()\n")\n)\n@DeprecatedSinceKotlin(warningSince = "\n1.4\n", errorSince = "\n1.6\n")\npublic
inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element =

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this.newCreateElement(name, init)\n\n/**\n * Appends a newly created element with the specified [name] to this
element.\n *\n * The element is initialized with the specified [init] function.\n
*\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another package,
use 'kotlinx.dom.appendElement' instead.\",\n  replaceWith = ReplaceWith(\"this.appendElement(name, init)\",
\"kotlinx.dom.appendElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic
inline fun Element.appendElement(name: String, noinline init: Element.() -> Unit): Element =
this.newAppendElement(name, init)\n\n\",/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.addClass as newAddClass\nimport
kotlinx.dom.hasClass as newHasClass\nimport kotlinx.dom.removeClass as newRemoveClass\n\n/** Returns
true if the element has the given CSS class style in its 'class' attribute
*\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another package,
use 'kotlinx.dom.hasClass' instead.\",\n  replaceWith = ReplaceWith(\"this.hasClass(cssClass)\",
\"kotlinx.dom.hasClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)\n\n/**\n * Adds CSS class to element.
Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one
class has been added\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved
to another package, use 'kotlinx.dom.addClass' instead.\",\n  replaceWith =
ReplaceWith(\"this.addClass(cssClasses)\", \"kotlinx.dom.addClass\")\n)\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.6\")\ninline fun Element.addClass(vararg cssClasses:
String): Boolean = this.newAddClass(*cssClasses)\n\n/**\n * Removes all [cssClasses] from element. Has no effect
if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been
removed\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another
package, use 'kotlinx.dom.removeClass' instead.\",\n  replaceWith =
ReplaceWith(\"this.removeClass(cssClasses)\",
\"kotlinx.dom.removeClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline
fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)\",/>\n *
Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage
kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport
kotlinx.dom.isElement as newIsElement\nimport kotlinx.dom.isText as newIsText\n\n/**\n * Gets a value
indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n
*\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to another package,
use 'kotlinx.dom.isText' instead.\",\n  replaceWith = ReplaceWith(\"this.isText\",
\"kotlinx.dom.isText\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isText: Boolean\n  inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n *\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = \"This API is moved to
another package, use 'kotlinx.dom.isElement' instead.\",\n  replaceWith = ReplaceWith(\"this.isElement\",
\"kotlinx.dom.isElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isElement: Boolean\n  inline get() = this.newIsElement\n\n\",/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage
kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as newAppendText\nimport
kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node.

```

```

*/\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = `This API is moved to another package,
use 'kotlin.dom.clear' instead.`,\n  replaceWith = ReplaceWith(`this.clear()`),
`kotlin.dom.clear`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\npublic inline fun
Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n * \n * @return this
element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n  message = `This API is moved to another
package, use 'kotlin.dom.appendText' instead.`,\n  replaceWith = ReplaceWith(`this.appendText(text)`),
`kotlin.dom.appendText`)\n)\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value
of the specified type [T] without any actual type checking.\n */\n@kotlin.internal.DynamicExtension\n@JsName(`unsafeCastDynamic`)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n  val r: Any? = this\n  return when {\n    this[`iterator`] != null ->\n      this[`iterator`]()\n    isArrayish(r) ->\n      r.unsafeCast<Array<*>>().iterator()\n    else ->\n      (r as Iterable<*>).iterator()\n  }\n}\n\n"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
file.\n */\n\npackage kotlin.enums\n\n// Unused stub\ninternal actual class EnumEntriesSerializationProxy<E :
Enum<E>> actual constructor(entries: Array<E>)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the
module\n@JsName(`throwNPE`)\ninternal fun throwNPE(message: String) {\n  throw
NullPointerException(message)\n}\n@JsName(`throwCCE`)\ninternal fun throwCCE() {\n  throw
ClassCastException(`Illegal cast`)\n}\n@JsName(`throwISE`)\ninternal fun throwISE(message: String) {\n  throw
IllegalStateException(message)\n}\n@JsName(`throwUPAE`)\ninternal fun throwUPAE(propertyName:
String) {\n  throw UninitializedPropertyAccessException(`lateinit property ${propertyName} has not been
initialized`)\n}\n\n"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements in each
group.\n * \n * @return a [Map] associating the key of each group with the count of elements in the group.\n * \n *
@sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(`1.1`)\npublic actual fun <T,
K> Grouping<T, K>.eachCount(): Map<K, Int> =\n  fold(0) { acc, _ -> acc + 1 }\n\n/**\n * Groups elements
from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each
group.\n * \n * @return a [Map] associating the key of each group with the count of element in the group.\n */\n@SinceKotlin(`1.1`)\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n  fold(0)
{ acc, e -> acc + valueSelector(e) }\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(`GroupingKt`)\n@file:kotlin.jvm.JvmMultifileClass\n\npackage

```

kotlin.collections\n\n\*\*\n \* Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\n \* A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n \* they group elements by their keys and then fold each group with some aggregating operation.\n \* It is created by attaching `keySelector: (T) -> K` function to a source of elements.\n \* To get an instance of [Grouping] use one of `groupingBy` extension functions:\n \* - [Iterable.groupingBy]\n \* - [Sequence.groupingBy]\n \* - [Array.groupingBy]\n \* - [CharSequence.groupingBy]\n \* For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.\n

```


*^@SinceKotlin("1.1")\npublic interface Grouping<T, out K> {\n    /** Returns an [Iterator] over the elements of the source of this grouping. */\n    fun sourceIterator(): Iterator<T>\n    /** Extracts the key of an [element]. */\n    fun keyOf(element: T): K\n}\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered in the group.\n * @return a [Map] associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadix\n
*^@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.aggregate(\n    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K, R> {\n    return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered in the group.\n * If the [destination] map already has a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as `first`.\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n
*^@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(\n    destination: M,\n    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M {\n    for (e in this.sourceIterator()) {\n        val key = keyOf(e)\n        val accumulator = destination[key]\n        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n    }\n    return destination\n}\n\n**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by [initialValueSelector] function.\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the first element being encountered in that group.\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n
*^@SinceKotlin("1.1")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n    initialValueSelector: (key: K, element: T) -> R,\n    operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n    @Suppress("UNCHECKED_CAST")\n    aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n
  

```

\* Groups

elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments and stores the results in the given [destination] map. An initial value of accumulator is provided by [initialValueSelector] function.

@param initialValueSelector a function that provides an initial value of accumulator for each group. It's invoked with parameters:

- `key`: the key of the group;
- `element`: the first element being encountered in that group.

If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group.

@param operation a function that is invoked on each element with the following parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return the [destination] map associating the key of each group with the result of accumulating the group elements.

@sample

```
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo
```

`@SinceKotlin("1.1")` public inline fun <T, K, R, M : MutableMap<in K, R>>

```
Grouping<T, K>.foldTo(
    destination: M,
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R): M =
    @Suppress("UNCHECKED_CAST")
    aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }
```

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the same [initialValue] for each group.

@param operation a function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return a [Map] associating the key of each group with the result of accumulating the group elements.

@sample

```
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue
```

`@SinceKotlin("1.1")` public inline fun <T, K, R> Grouping<T, K>.fold(
 initialValue: R,
 operation: (accumulator: R, element: T) -> R): Map<K, R> =
 @Suppress("UNCHECKED\_CAST")
 aggregate { \_, acc, e, first -> operation(if (first) initialValue else acc as R, e) }

Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map.

An initial value of accumulator is the same [initialValue] for each group.

If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.

@param operation a function that is invoked on each element with the following parameters:

- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return the [destination] map associating the key of each group with the result of accumulating the group elements.

@sample

```
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo
```

`@SinceKotlin("1.1")` public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(
 destination: M,
 initialValue: R,
 operation: (accumulator: R, element: T) -> R): M =
 @Suppress("UNCHECKED\_CAST")
 aggregateTo(destination) { \_, acc, e, first -> operation(if (first) initialValue else acc as R, e) }

Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map.

An initial value of accumulator is the first element of the group.

@param operation a function that is invoked on each subsequent element of the group with the following parameters:

- `key`: the key of the group this element belongs to;
- `accumulator`: the current value of the accumulator of the group;
- `element`: the element from the source being accumulated.

@return a [Map] associating the key of each group with the result of accumulating the group elements.

@sample



```

samples.collections.Grouping.reduceByMaxVowels\n *\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K>
Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S> =\n aggregate {
key, acc, e, first ->\n @Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n
}\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the
elements of each group\n
* sequentially starting from the second element of the group,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to
the key of some group,\n * that value is used as an initial value of the accumulator for that group and the first
element of that group is also\n * subjected to the [operation].\n *\n * @param operation a function that is invoked on
each subsequent element of the group with the following parameters:\n * - `accumulator`: the current value of the
accumulator of the group;\n * - `element`: the element from the source being folded;\n *\n * @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n
*\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\n *\n@SinceKotlin("1.1")\npublic inline
fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key:
K, accumulator: S, element: T) -> S\n): M =\n aggregateTo(destination) { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n }\n\n\n/**\n * Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n
*\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an
initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group
with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n
*\n@SinceKotlin("1.1")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachCountTo(destination: M): M =\n foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n\n/**\n * Groups
elements from the
[Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\n
* to the given [destination] map.\n *\n * If the [destination] map already has a value corresponding to the key of
some group,\n * that value is used as an initial value of the sum for that group.\n *\n * @return the [destination] map
associating the key of each group with the sum of elements in the group.\n *\n@SinceKotlin("1.1")\npublic inline
fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int):
M =\n foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n\n\n/**\n * TODO: sum by long and by
double overloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T,
K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n foldTo(destination, 0L) { acc, e ->
acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long):
Map<K,
Long> =\n fold(0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K,
Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n
foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T,
K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\n fold(0.0) { acc, e -> acc +
valueSelector(e)}\n\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\npackage
kotlin.js\n\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FUNCTION,
AnnotationTarget.PROPERTY)\ninternal annotation class JsPolyfill(val implementation: String)\n", "/*\n *
Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n *\npackage
kotlin.io.encoding\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\n@kotlin.internal.InlineOnly\ninternal
actual inline fun Base64.platformCharsToBytes(source: CharSequence, startIndex: Int, endIndex: Int): ByteArray

```

```

{\n  return charsToBytesImpl(source, startIndex,
endIndex)\n}\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\n@kotlin.internal.InlineOnly\ninternal
actual inline fun Base64.platformEncodeToString(source: ByteArray, startIndex: Int, endIndex: Int): String {\n  val
byteResult = encodeToByteArrayImpl(source, startIndex, endIndex)\n  return
bytesToStringImpl(byteResult)\n}\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\n@kotlin.internal.Inline
Only\ninternal actual inline fun Base64.platformEncodeIntoByteArray(\n  source: ByteArray,\n  destination:
ByteArray,\n  destinationOffset: Int,\n  startIndex: Int,\n  endIndex: Int\n): Int {\n  return
encodeIntoByteArrayImpl(source,
  destination, destinationOffset, startIndex,
endIndex)\n}\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\n@kotlin.internal.InlineOnly\ninternal actual
inline fun Base64.platformEncodeToByteArray(\n  source: ByteArray,\n  startIndex: Int,\n  endIndex: Int\n):
ByteArray {\n  return encodeToByteArrayImpl(source, startIndex, endIndex)\n}"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An
interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is
[Any?][Any].\n */\n\npublic external interface Json {\n  /**\n   * Calls to the function will be translated to indexing
operation (square brackets) on the receiver with [propertyName] as the argument.\n   * E.g. for next code:\n
 * ```kotlin\n   * fun test(j: Json,
  p: String) = j["prop"] + j.get(p)\n   * ```\n   * will be generated:\n   * ```js\n   * function test(j, p) {\n
 *   return j["prop"] + j[p];\n   * }\n   * ```\n   */\n   * operator fun get(propertyName: String): Any?\n\n  /**\n
 * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square
brackets/index operation) with [propertyName].\n   * E.g. for the following code:\n   * ```kotlin\n   * fun
test(j: Json, p: String, newValue: Any) {\n   *   j["prop"] = 1\n   *   j.set(p, newValue)\n   * }\n   * ```\n
 * will be generated:\n   * ```js\n   * function test(j, p, newValue) {\n   *   j["prop"] = 1;\n   *   j[p] =
newValue;\n   * }\n   * }\n   * ```\n   */\n   * operator fun set(propertyName: String, value: Any?):
Unit\n}\n\n/**\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and
values of its properties.\n\n  */\n\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n  val res: dynamic = js("{}")\n  for ((name,
value) in pairs) {\n    res[name] = value\n  }\n  return res\n}\n\n/**\n * Adds key-value pairs from [other] to
[this].\n * Returns the original receiver.\n */\n\npublic fun Json.add(other: Json): Json {\n  val keys: Array<String> =
js("Object").keys(other)\n  for (key in keys) {\n    if (other.asDynamic().hasOwnProperty(key)) {\n
this[key] = other[key];\n    }\n  }\n  return this\n}\n\n/**\n * Exposes the JavaScript [JSON]
object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n\n
 */\n\n@Suppress("NOT_DOCUMENTED")\npublic external object JSON {\n  public fun stringify(o: Any?):
String\n  public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?): String\n  public fun
stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int):
String\n  public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space:
String): String\n  public fun stringify(o: Any?, replacer: Array<String>): String\n  public fun stringify(o: Any?,
replacer: Array<String>, space: Int): String\n  public fun stringify(o: Any?, replacer: Array<String>, space:
String): String\n\n  public fun <T> parse(text: String): T\n  public fun <T> parse(text: String, reviver: ((key:
String, value: Any?) -> Any?): T)\n}\n}"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath
as nativeMath\n\n// region ===== Double Math
=====
\n\n/**\n * Computes the sine of the angle [x] given in
radians.\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)`
is `NaN`\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double =
nativeMath.sin(x)\n\n/**\n * Computes the cosine of the angle [x] given in radians.\n * Special cases:\n * -

```

`cos(NaN|+Inf|-Inf)` is `NaN`

`tan(NaN|+Inf|-Inf)` is `NaN`

`asin(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`

`acos(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`

`atan(NaN)` is `NaN`

`atan2(0.0, 0.0)` is `0.0`

`atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`

`atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`

`atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`

`atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`

`atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`

`atan2(+Inf, x)` is `PI/2` for finite `x`

`atan2(-Inf, x)` is `-PI/2` for finite `x`

`atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`

`sinh(NaN)` is `NaN`

`sinh(+Inf)` is `+Inf`

`sinh(-Inf)` is `-Inf`

`cosh(NaN)` is `NaN`

`cosh(+Inf|-Inf)` is `+Inf`

`tanh(NaN)` is `NaN`

`tanh(+Inf)` is `1.0`

`tanh(-Inf)` is `-1.0`

`asinh(NaN)` is `NaN`

`asinh(+Inf)` is `+Inf`

`asinh(-Inf)` is `-Inf`

`acosh(NaN)` is `NaN`

`acosh(x)` is `NaN` when `x < 1`

`acosh(+Inf)` is `+Inf`

`atanh(NaN)` is `NaN`

`atanh(+Inf)` is `+Inf`

`atanh(-Inf)` is `-Inf`

`hypot(x, y)`

`sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`exp(NaN)` is `NaN`

`exp(+Inf)` is `+Inf`

`exp(-Inf)` is `0.0`

`expm1(NaN)` is `NaN`

`expm1(+Inf)` is `+Inf`

```

* - `expm1(-Inf)` is  $-1.0$ 
* @see [exp] function.
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun expm1(x: Double): Double = nativeExpm1(x)
* Computes the logarithm of the value [x] to the
given [base].
* Special cases:
* - `log(x, b)` is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$ 
* - `log(x, b)` is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$ 
* -
`log(+Inf, +Inf)` is  $\text{NaN}$ 
* - `log(+Inf, b)` is  $+\text{Inf}$  for  $b > 1$  and  $-\text{Inf}$  for  $b < 1$ 
* - `log(0.0, b)` is  $-\text{Inf}$ 
for  $b > 1$  and  $+\text{Inf}$  for  $b > 1$ 
* See also logarithm functions for common fixed bases: [ln], [log10] and
[log2].
* Since Kotlin("1.2")
* public actual fun log(x: Double, base: Double): Double {
    if (base <= 0.0 ||
base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
* Computes the
natural logarithm (base  $E$ ) of the value [x].
* Special cases:
* -  $\ln(\text{NaN})$  is  $\text{NaN}$ 
* -  $\ln(x)$  is  $\text{NaN}$ 
when  $x < 0.0$ 
* -  $\ln(+\text{Inf})$  is  $+\text{Inf}$ 
* -  $\ln(0.0)$  is  $-\text{Inf}$ 
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun ln(x: Double): Double = nativeMath.log(x)
* Computes the common logarithm (base 10)
of the value [x].
* @see [ln] function for special cases.
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun log10(x: Double): Double = nativeLog10(x)
* Computes the binary logarithm (base 2) of the value [x].
* @see [ln] function for special cases.
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun log2(x: Double): Double =
nativeLog2(x)
* Computes  $\ln(x + 1)$ .
* This function can be implemented to produce more precise
result for [x] near zero.
* Special cases:
* -  $\ln1p(\text{NaN})$  is  $\text{NaN}$ 
* -  $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$ 
* -  $\ln1p(-1.0)$  is  $-\text{Inf}$ 
* -  $\ln1p(+\text{Inf})$  is  $+\text{Inf}$ 
* @see [ln] function
* @see [expm1] function
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun ln1p(x: Double): Double =
nativeLog1p(x)
* Rounds the given value [x] to an integer towards positive infinity.
* @return the
smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.
* Special cases:
* -  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
* Since Kotlin("1.2")
* InlineOnly
* public
actual
inline fun ceil(x: Double): Double = nativeMath.ceil(x)
* Rounds the given value [x] to an integer
towards negative infinity.
* @return the largest double value that is smaller than or equal to the given value [x]
and is a mathematical integer.
* Special cases:
* -  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or
already a mathematical integer.
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun floor(x:
Double): Double = nativeMath.floor(x)
* Rounds the given value [x] to an integer towards zero.
* @return the value [x] having its fractional part truncated.
* Special cases:
* -  $\text{truncate}(x)$  is  $x$  where  $x$ 
is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun truncate(x: Double): Double = nativeTrunc(x)
* Rounds the given value [x] towards the
closest integer with ties rounded towards
even integer.
* Special cases:
* -  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a
mathematical integer.
* Since Kotlin("1.2")
* public actual fun round(x: Double): Double {
    if (x % 0.5 !=
0.0) {
        return nativeMath.round(x)
    }
    val floor = floor(x)
    return if (floor % 2 == 0.0) floor else
ceil(x)
}
* Returns the absolute value of the given value [x].
* Special cases:
* -  $\text{abs}(\text{NaN})$  is
 $\text{NaN}$ 
* @see absoluteValue extension property for [Double]
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun abs(x: Double): Double =
nativeMath.abs(x)
* Returns the sign of the given value [x]:
* -  $-1.0$  if the value is negative,
* - zero
if the value is zero,
* -  $1.0$  if the value is positive
* Special case:
* -  $\text{sign}(\text{NaN})$  is  $\text{NaN}$ 
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun sign(x: Double): Double =
nativeSign(x)
* Returns the smaller
of two values.
* If either value is  $\text{NaN}$ , then the result is  $\text{NaN}$ .
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun min(a: Double, b: Double): Double =
nativeMath.min(a, b)
* Returns the greater of two values.
* If either value is  $\text{NaN}$ , then the result is
 $\text{NaN}$ .
* Since Kotlin("1.2")
* InlineOnly
* public actual
inline fun max(a: Double, b: Double): Double =
nativeMath.max(a, b)
* Returns the cube root of [x]. For any  $x$ ,  $\text{cbrt}(-x) == -\text{cbrt}(x)$ ; that is, the
cube root of a negative value is the negative of the cube root
of that value's magnitude.
* Special cases:

```

Special cases:  
`NaN` \* - If the argument is `NaN`, then the result is `NaN`.  
`Infinity` \* - If the argument is infinite, then the result is an infinity with the same sign as the argument.  
`0` \* - If the argument is zero, then the result is a zero with the same sign as the argument.

```

*^@SinceKotlin("1.8")^@WasExperimental(ExperimentalStdlibApi::class)^@InlineOnly^public
  actual inline fun cbrt(x: Double): Double = nativeMath.cbrt(x)\n\n// extensions\n\n/**\n * Raises this value to the
  power [x].\n *\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is
  `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)`
  is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual
  inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer
  power [n].\n *\n * See the other overload of [pow] for details.\n */\n^@SinceKotlin("1.2")^@InlineOnly^public
  actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute
  value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual inline val Double.absoluteValue:
  Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this value:\n * - `1.0` if the value is negative,\n *
  - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual inline val Double.sign: Double get() =
  nativeSign(this)\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual inline fun Double.withSign(sign: Int): Double =
  this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a
  positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special
  Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is
  `Double.MIN_VALUE`\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual val Double.ulp: Double get() = when {\n  this
  < 0 -> (-this).ulp\n  this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n  this ==
  Double.MAX_VALUE -> this - this.nextDown()\n  else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double]
  value nearest to this value in direction of positive infinity.\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual fun
  Double.nextUp(): Double = when {\n  this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n  this == 0.0
  -> Double.MIN_VALUE\n  else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n *
  Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual fun Double.nextDown(): Double = when {\n  this.isNaN() || this ==
  Double.NEGATIVE_INFINITY -> this\n  this == 0.0 -> -Double.MIN_VALUE\n  else ->
  Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/**\n * Returns the [Double] value nearest to this
  value in direction from this value towards the value [to].\n *\n * Special cases:\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual fun Double.nextTowards(to: Double): Double = when {\n  this.isNaN() || to.isNaN() -> Double.NaN\n  to == this -> to\n  to > this -> this.nextUp()\n  else /* to < this */ ->
  this.nextDown()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n *\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE`
  when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws
  IllegalArgumentException when this value is `NaN`\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual fun
  Double.roundToInt(): Int = when {\n  isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")\n  this > Int.MAX_VALUE -> Int.MAX_VALUE\n  this < Int.MIN_VALUE -> Int.MIN_VALUE\n  else ->
  nativeMath.round(this).toInt()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n *\n * Ties are rounded towards
  positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x >
  Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws
  IllegalArgumentException when this value is `NaN`\n */\n^@SinceKotlin("1.2")^@InlineOnly^public actual fun
  Double.roundToLong(): Long = when {\n  isNaN() -> throw IllegalArgumentException("Cannot round NaN
  value.")\n  this > Long.MAX_VALUE -> Long.MAX_VALUE\n  this < Long.MIN_VALUE ->
  Long.MIN_VALUE\n  else -> nativeMath.round(this).toLong()\n}\n

```

```

Long.MIN_VALUE\n else -> nativeMath.round(this).toLong()\n}\n\n// endregion\n\n\n\n// region
===== Float Math =====\n\n/** Computes the
sine of the angle [x] given in radians.\n * \n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float
= nativeMath.sin(x.toDouble()).toFloat()\n\n/** Computes the cosine of the angle [x] given in radians.\n * \n *
Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline
fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/** Computes the tangent of the angle [x] given
in radians.\n * \n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float =
nativeMath.tan(x.toDouble()).toFloat()\n\n/** \n * Computes the arc sine of the value [x];\n * the returned value is
an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * \n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) >
1` or x is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float =
nativeMath.asin(x.toDouble()).toFloat()\n\n/** \n * Computes the arc cosine of the value [x];\n * the returned value
is an angle in the range
from  $0.0$  to  $\pi$  radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float =
nativeMath.acos(x.toDouble()).toFloat()\n\n/** \n * Computes the arc tangent of the value [x];\n * the returned value
is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float =
nativeMath.atan(x.toDouble()).toFloat()\n\n/** \n * Returns the angle `theta` of the polar coordinates `(r, theta)` that
correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value  $y / x$ ;\n * the
returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.\n * \n * Special cases:\n * - `atan2(0.0, 0.0)` is
 $0.0$ \n * - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ \n * - `atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and
 $-\pi$  for  $x < 0$ \n * - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$  for  $-\infty < y < 0$ \n * - `atan2(y, -Inf)` is
 $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-\infty < y < 0$ \n * - `atan2(y, 0.0)` is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ \n *
- `atan2(+Inf, x)` is  $\pi/2$  for finite  $x$ \n * - `atan2(-Inf, x)` is  $-\pi/2$  for finite  $x$ \n * - `atan2(NaN, x)` and
`atan2(y, NaN)` is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan2(y: Float, x:
Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\n\n/** \n * Computes the hyperbolic sine of
the value [x].\n * \n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is  $+\infty$ \n * - `sinh(-Inf)` is
 $-\infty$ \n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sinh(x: Float): Float =
nativeSinh(x.toDouble()).toFloat()\n\n/** \n * Computes the hyperbolic cosine of the value [x].\n * \n * Special
cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)`
is  $+\infty$ \n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cosh(x: Float): Float =
nativeCosh(x.toDouble()).toFloat()\n\n/** \n * Computes the hyperbolic tangent of the value [x].\n * \n * Special
cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is  $1.0$ \n * - `tanh(-Inf)` is  $-1.0$ \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tanh(x: Float): Float =
nativeTanh(x.toDouble()).toFloat()\n\n/** \n * Computes the inverse hyperbolic sine of the value [x].\n * \n * The
returned value is `y` such that  $\sinh(y) == x$ .\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * -
`asinh(+Inf)` is  $+\infty$ \n * - `asinh(-Inf)` is  $-\infty$ \n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline
fun asinh(x: Float): Float = nativeAsinh(x.toDouble()).toFloat()\n\n/** \n * Computes the inverse hyperbolic cosine
of the value [x].\n * \n * The returned value is positive `y` such that  $\cosh(y) == x$ .\n * \n * Special cases:\n * -
`acosh(NaN)` is `NaN`\n *
- `acosh(x)` is `NaN` when  $x < 1$ \n * - `acosh(+Inf)` is  $+\infty$ \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acosh(x: Float): Float =
nativeAcosh(x.toDouble()).toFloat()\n\n/** \n * Computes the inverse hyperbolic tangent of the value [x].\n * \n *
The returned value is `y` such that  $\tanh(y) == x$ .\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)`
is `NaN` when  $x > 1$  or  $x < -1$ \n * - `tanh(1.0)` is  $+\infty$ \n * - `tanh(-1.0)` is  $-\infty$ \n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float =

```

`nativeAtanh(x.toDouble()).toFloat()`\n\n\*\*\n \* Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.\n\n \* Special cases:\n \* - returns  $+\infty$  if any of arguments is infinite\n \* - returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeHypot(x.toDouble(), y.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes the positive square root of the value [x].\n\n \* Special cases:\n \* -  $\sqrt{x}$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$ \n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes Euler's number  $e$  raised to the power of the value [x].\n\n \* Special cases:\n \* -  $\exp(\text{NaN})$  is  $\text{NaN}$ \n \* -  $\exp(+\infty)$  is  $+\infty$ \n \* -  $\exp(-\infty)$  is  $0.0$ \n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes  $\exp(x) - 1$ .\n\n \* This function can be implemented to produce more precise result for [x] near zero.\n\n \* Special cases:\n \* -  $\text{expm1}(\text{NaN})$  is  $\text{NaN}$ \n \* -  $\text{expm1}(+\infty)$  is  $+\infty$ \n \* -  $\text{expm1}(-\infty)$  is  $-1.0$ \n\n \* @see [exp] function.\n\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeExpM1(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes the logarithm of the value [x] to the given [base].\n\n \* Special cases:\n \* -  $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$ \n \* -  $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$ \n \* -  $\log(+\infty, +\infty)$  is  $\text{NaN}$ \n \* -  $\log(+\infty, b)$  is  $+\infty$  for  $b > 1$  and  $-\infty$  for  $b < 1$ \n \* -  $\log(0.0, b)$  is  $-\infty$  for  $b > 1$  and  $+\infty$  for  $b < 1$ \n\n \* See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes the natural logarithm (base  $E$ ) of the value [x].\n\n \* Special cases:\n \* -  $\ln(\text{NaN})$  is  $\text{NaN}$ \n \* -  $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$ \n \* -  $\ln(+\infty)$  is  $+\infty$ \n \* -  $\ln(0.0)$  is  $-\infty$ \n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes the common logarithm (base 10) of the value [x].\n\n \* @see [ln] function for special cases.\n\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeLog10(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes the binary logarithm (base 2) of the value [x].\n\n \* @see [ln] function for special cases.\n\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float = nativeLog2(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Computes  $\ln(x + 1)$ .\n\n \* This function can be implemented to produce more precise result for [x] near zero.\n\n \* Special cases:\n \* -  $\ln1p(\text{NaN})$  is  $\text{NaN}$ \n \* -  $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$ \n \* -  $\ln1p(-1.0)$  is  $-\infty$ \n \* -  $\ln1p(+\infty)$  is  $+\infty$ \n\n \* @see [ln] function\n \* @see [expm1] function\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float = nativeLog1p(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Rounds the given value [x] to an integer towards positive infinity.\n\n\n \* @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n \* -  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Rounds the given value [x] to an integer towards negative infinity.\n\n \* @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n\n \* Special cases:\n \* -  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Rounds the given value [x] to an integer towards zero.\n\n \* @return the value [x] having its fractional part truncated.\n\n \* Special cases:\n \* -  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n\n \* Special cases:\n \* -  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.\n \*  
`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()`\n\n\*\*\n\n \* Returns the absolute value of the given value [x].\n\n \* Special cases:\n \*

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* - `abs(NaN)` is `NaN` \n * \n * @see absoluteValue extension property for [Float]\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()\n\n/>\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is
negative,\n * - zero if the value is zero,\n
* - `1.0` if the value is positive\n * \n * Special case:\n * - `sign(NaN)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float =
nativeSign(x.toDouble()).toFloat()\n\n/>\n * Returns the smaller of two values.\n * \n * If either value is `NaN`,
then the result is `NaN`.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Float, b: Float):
Float = nativeMath.min(a, b)\n\n/>\n * Returns the greater of two values.\n * \n * If either value is `NaN`, then the
result is `NaN`.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float): Float =
nativeMath.max(a, b)\n\n/>\n * Returns the cube root of [x]. For any `x`, `cbrt(-x) == -cbrt(x)`;\n * that is, the
cube root of a negative value is the negative of the cube root\n * of that value's magnitude. Special cases:\n * \n *
Special cases:\n * - If the argument is `NaN`, then the result is `NaN`.\n * - If the argument is infinite,
then the result is an infinity with the same sign as the argument.\n * - If the argument is zero, then the result is a
zero with the same sign as the argument.\n
*\n@SinceKotlin("1.8")\n@WasExperimental(ExperimentalStdlibApi::class)\n@InlineOnly\npublic actual inline
fun cbrt(x: Float): Float = nativeMath.cbrt(x.toDouble()).toFloat()\n\n/>\n // extensions\n\n/>\n * Raises this value
to the power [x].\n * \n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is
`NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)`
is `NaN` for `b < 0` and `x` is finite and not an integer\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/>\n * Raises
this value to the integer power [n].\n * \n * See the other overload of [pow] for details.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/>\n *
Returns the absolute value of this value.\n * \n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n * \n * @see
abs function\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() =
nativeMath.abs(this.toDouble()).toFloat()\n\n/>\n * Returns the sign of this value:\n * - `-1.0` if the value is
negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n * \n * Special case:\n * - `NaN.sign` is
`NaN`\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.sign: Float get() =
nativeSign(this.toDouble()).toFloat()\n\n/>\n * Returns this value with the sign bit same as of the [sign] value.\n
*\n * If [sign] is `NaN` the sign of the result is undefined.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/>\n *
Returns this value with the sign bit same as of the [sign] value.\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/>\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n * \n * Ties are rounded towards positive infinity.\n * \n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n/>\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * \n * Ties are rounded towards positive infinity.\n * \n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE`
when `x < Long.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n/>\n // endregion\n\n/>\n * Returns the absolute value of the given value
[n].\n * \n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n * \n * @see
absoluteValue extension property for [Int]\n\n/>\n // TODO: remove manual 'or' when KT-19290 is

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fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n * - @see abs function\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n/**\n * Returns the absolute value of the given value [n].\n */\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n * - @see absoluteValue extension property for [Long]\n */\n@SinceKotlin("1.2")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.2")\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n */\n * Special cases:\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * - @see abs function\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin("1.2")\npublic actual val Long.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n// endregion\n"/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean = !isInfinite()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Float.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countOneBits(): Int {\n    // Hacker's Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\n    v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\n    v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n    v = (v and 0x0000FFFF) + (v.ushr(16))\n    return v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Int.countLeadingZeroBits(): Int = nativeClz32(this)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countTrailingZeroBits(): Int =\n    // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with

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countLeadingZeroBits\n  Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a
number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this
number is zero.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeHighestOneBit(): Int =\n  if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n *
Returns a number having a single bit set in the position of the least significant
set bit of this [Int] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.takeLowestOneBit(): Int =\n  // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n  this and -
this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of
bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the
right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit
count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n  shl(bitCount) or
  ushr(Int.SIZE_BITS - bitCount)\n\n/**\n * Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number
as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a
multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 32)`\n
*/\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n  shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/**\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countOneBits():
  Int =\n  high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of consecutive most significant
bits that are zero in the binary representation of this [Long] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n  when (val high = this.high) {\n    0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n    else -> high.countLeadingZeroBits()\n  }\n\n/**\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n  when (val low = this.low) {\n    0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n    else -> low.countTrailingZeroBits()\n  }\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero,
if this number is zero.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual fun Long.takeHighestOneBit(): Long =\n  when (val high = this.high) {\n    0 ->
Long(low.takeHighestOneBit(), 0)\n    else -> Long(0, high.takeHighestOneBit())\n  }\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this
number is zero.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n  when (val low = this.low) {\n    0 -> Long(0, high.takeLowestOneBit())\n
else -> Long(low.takeLowestOneBit(), 0)\n  }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n * Rotating the number left by a
negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

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*\/n@SinceKotlin("1.6")n@WasExperimental(ExperimentalStdlibApi::class)npublic actual fun
Long.rotateLeft(bitCount: Int): Long {n if ((bitCount and 31) != 0) {n val low = this.lown val high =
this.highn val newLow = low.shl(bitCount) or high.ushr(-bitCount)n val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)n } else {n return if ((bitCount and 32) == 0) this else Long(high, low)n }}n}n/n/n/**n *
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.n * The
least significant bits pushed out from the right
side reenter the number as the most significant bits on the left side.n *n * Rotating the number right by a negative
bit count is the same as rotating it left by the negated bit count:n * `number.rotateRight(-n) ==
number.rotateLeft(n)`n *n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generallyn * `number.rotateRight(n) == number.rotateRight(n % 64)`n
*\/n@SinceKotlin("1.6")n@WasExperimental(ExperimentalStdlibApi::class)n@kotlin.internal.InlineOnlynpubli
c actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)n"/n/**n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.n */npackage kotlin.js\nimport
kotlin.internal.LowPriorityInOverloadResolution\n/n/**n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise)
to Kotlin.n */n@Suppress("NOT_DOCUMENTED")npublic open external class Promise<out T>(executor:
(resolve: (T) -> Unit, reject: (Throwable) -> Unit) -> Unit) {n @LowPriorityInOverloadResolutionn public
open fun <S> then(onFulfilled: ((T) -> S)?): Promise<S>n @LowPriorityInOverloadResolutionn public open
fun <S> then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>n public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>n public open fun finally(onFinally: () -> Unit):
Promise<T>n companion object {n public fun <S> all(promise: Array<out Promise<S>>):
Promise<Array<out S>>n public fun <S> race(promise: Array<out Promise<S>>): Promise<S>n
public fun reject(e: Throwable): Promise<Nothing>n public fun <S> resolve(e: S): Promise<S>n public
fun <S> resolve(e: Promise<S>): Promise<S>n }n}n/n// It's workaround for KT-19672 since we can fix it
properly until KT-11265 isn't fixed.ninline fun <T, S> Promise<Promise<T>>.then(n noinline onFulfilled: ((T) -
> S)?n): Promise<S> {n return this.unsafeCast<Promise<T>>().then(onFulfilled)n}n/ninline fun <T, S>
Promise<Promise<T>>.then(n noinline onFulfilled: ((T) -> S)?,n noinline onRejected: ((Throwable) -> S)?n):
Promise<S> {n return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)n}n"/n/**n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.n */npackage
kotlin.random\nimport kotlin.math.pow\ninternal actual fun defaultPlatformRandom(): Random =n
Random(js(("Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())nprivate val INV_2_26: Double =
2.0.pow(-26)nprivate val INV_2_53: Double = 2.0.pow(-53)ninternal actual fun doubleFromParts(hi26: Int, low27:
Int): Double =n hi26
* INV_2_26 + low27 * INV_2_53"/n/**n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.n */npackage kotlin.reflect\nimport findAssociatedObject\n/n/**n * The
experimental marker for associated objects API.n *n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either byn * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,n * or by using the compiler argument
`-opt-in=kotlin.reflect.ExperimentalAssociatedObjects`.n */n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)n@Retention(value = AnnotationRetention.BINARY)npublic annotation class
ExperimentalAssociatedObjects\n/n/**n * Makes the annotated annotation class an associated object key.n */n *
An associated object key annotation should have single [KClass] parameter.n * When
applied to a class with reference to an object declaration as an argument, it bindsn * the object to the class, making
this binding discoverable at runtime using [findAssociatedObject].n

```

```

*\/n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns
object `S`.\n * Otherwise returns `null`.\n */\n\n@ExperimentalAssociatedObjects\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n    this.findAssociatedObject(T::class)", /*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\nimport kotlin.reflect.KClass\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n
* Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a
constructor reference.\n */\n\nexternal interface JsClass<T : Any> {\n    /**\n     * Returns the unqualified name of the
class represented by this instance.\n     */\n    val name: String\n}\n\n/**\n * Obtains a constructor reference for the
given `KClass`.\n */\n\nval <T : Any> KClass<T>.js: JsClass<T>\n    get() = (this as KClassImpl<T>).jClass\n\n/**\n
* Obtains a `KClass` instance for the given constructor reference.\n */\n\nval <T : Any> JsClass<T>.kotlin:
KClass<T>\n    get() = getKClass(this)\n}", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract
class KClassImpl<T : Any>(\n    internal open
    val jClass: JsClass<T>): KClass<T> {\n\n    override val qualifiedName: String? \n        get() = TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other is KClassImpl<*> && jClass == other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n    override fun
toString(): String {\n        // TODO: use FQN\n        return "\"class $simpleName\"\n    }\n\n    internal class
SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n        override val simpleName: String?
= jClass.asDynamic().`metadata`?.simpleName.unsafeCast<String?>()\n        override fun isInstance(value: Any?):
Boolean {\n            return jsIsType(value, jClass)\n        }\n\n        internal class PrimitiveKClassImpl<T : Any>(\n
            jClass: JsClass<T>,\n            private val givenSimpleName: String,\n            private val isInstanceFunction: (Any?) ->
Boolean\n        ) : KClassImpl<T>(jClass) {\n            override fun equals(other: Any?): Boolean {\n                if (other
                    !is PrimitiveKClassImpl<*>) return false\n                return super.equals(other) && givenSimpleName ==
                    other.givenSimpleName\n            }\n\n            override val simpleName: String? \n                get() = givenSimpleName\n\n            override fun
isInstance(value: Any?): Boolean {\n                return isInstanceFunction(value)\n            }\n\n            internal object
NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n                override val simpleName: String =
                    "\"Nothing\"\n                override fun isInstance(value: Any?): Boolean = false\n                override val jClass:
                    JsClass<Nothing>\n                    get() = throw UnsupportedOperationException("There's no native JS class for Nothing
                    type")\n                override fun equals(other: Any?): Boolean = other === this\n                override fun hashCode(): Int =
                    0\n            }\n\n            internal class ErrorKClass : KClassImpl<Nothing> {\n                override val simpleName: String? \n                get() =
                    error("Unknown simpleName for ErrorKClass")\n                override val qualifiedName: String? \n                get() = error("Unknown
                    qualifiedName for ErrorKClass")\n                override
                    fun isInstance(value: Any?): Boolean = error("Can's check isInstance on ErrorKClass")\n                override fun
                    equals(other: Any?): Boolean = other === this\n                override fun hashCode(): Int = 0\n            }\n        }\n\n        /**\n         * Copyright 2010-
                2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n         * Use of this source code is governed by the
                Apache 2.0 license that can be found in the license/LICENSE.txt file.\n         */\n\n        actual inline val KClass<*>.qualifiedOrSimpleName: String? \n            get() = simpleName", /*\n * Copyright 2010-2018
                JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
                Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get
                declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more
                reflection types\n\n@file:Suppress("Unsupported")\n\nimport kotlin.reflect.*\nimport
                kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal
                fun createKType(\n                    classifier: KClassifier,\n                    arguments: Array<KTypeProjection>,\n                    isMarkedNullable:
                    Boolean\n                ) =\n                    KTypeImpl(classifier, arguments.asList(),

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isMarkedNullable)\n\n@JsName("createDynamicKType")\ninternal fun createDynamicKType(): KType =
DynamicKType\n\n@JsName("markKTypeNullable")\ninternal fun markKTypeNullable(kType: KType) =
KTypeImpl(kType.classifier!!, kType.arguments, true)\n\n@JsName("createKTypeParameter")\ninternal fun
createKTypeParameter(\n name: String,\n upperBounds: Array<KType>,\n variance: String\n):
KTypeParameter {\n val kVariance = when (variance) {\n "in" -> KVariance.IN\n "out" ->
KVariance.OUT\n else -> KVariance.INVARIANT\n }\n\n return KTypeParameterImpl(name,
upperBounds.asList(), kVariance, false)\n}\n\n@JsName("getStarKTypeProjection")\ninternal fun
getStarKTypeProjection(): KTypeProjection =\n
KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\ninternal
fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\ninternal fun
createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean\n) : KType {\n override fun equals(other: Any?): Boolean =\n other
is
KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments && isMarkedNullable
== other.isMarkedNullable\n\n override fun hashCode(): Int =\n (classifier.hashCode() * 31 +
arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val kClass
= (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null -> classifier.toString()\n
kClass.simpleName != null -> kClass.simpleName\n else -> "(non-denotable type)"\n }\n\n val
args =\n if (arguments.isEmpty()) ""\n else arguments.joinToString(", ", "<", ">")\n val
nullable = if (isMarkedNullable) "?"\n else ""\n\n return classifierName + args + nullable\n }\n}\n\ninternal
object DynamicKType : KType {\n override val classifier: KClassifier? = null\n override val arguments:
List<KTypeProjection> = emptyList()\n override val isMarkedNullable:
Boolean = false\n\n override fun toString(): String = "dynamic"\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n override val name: String,\n override val
upperBounds: List<KType>,\n override val variance: KVariance,\n override val isReified: Boolean\n) :
KTypeParameter {\n override fun toString(): String = name\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\ninternal object PrimitiveClasses {\n
@JsName("anyClass")\n
val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n\n
@JsName("numberClass")\n val numberClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n
@JsName("nothingClass")\n val nothingClass = NothingKClassImpl\n\n @JsName("booleanClass")\n val
booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean
})\n\n @JsName("byteClass")\n val byteClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n
@JsName("shortClass")\n val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(),
"Short", { it is Short })\n\n @JsName("intClass")\n val intClass =

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PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })\n
@JsName("floatClass")\n val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(),
"Float", { it is Float })\n @JsName("doubleClass")\n val doubleClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n
@JsName("arrayClass")\n val arrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>(), "Array", { it is Array<*> })\n
@JsName("stringClass")\n val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(),
"String", { it is String })\n @JsName("throwableClass")\n val throwableClass =
PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })\n
@JsName("booleanArrayClass")\n val booleanArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray
})\n @JsName("charArrayClass")\n val charArrayClass =
PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray",
{ it is CharArray })\n @JsName("byteArrayClass")\n val byteArrayClass =
PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n
@JsName("shortArrayClass")\n val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray
})\n @JsName("intArrayClass")\n val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n
@JsName("longArrayClass")\n val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n
@JsName("floatArrayClass")\n val floatArrayClass =
PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray
})\n @JsName("doubleArrayClass")\n val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(),
"DoubleArray", { it is DoubleArray })\n @JsName("functionClass")\n fun functionClass(arity: Int):
KClassImpl<Any> {\n return functionClasses.get(arity) ?: run {\n val result =
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n
{ jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n functionClasses.asDynamic()[arity]
= result\n result\n }\n }\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0), "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n a package is omitted to get declarations directly under the module\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\ninternal fun <T : Any>
getKClass(jClass:
Any /* JsClass<T> | Array<JsClass<T>> */): KClass<T> {\n return if (js("Array").isArray(jClass)) {\n
getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n } else {\n
getKClass1(jClass.unsafeCast<JsClass<T>>())\n }\n}\n\n@JsName("getKClassM")\ninternal fun <T : Any>
getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n 1 ->
getKClass1(jClasses[0])\n 0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n else ->
ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName("getKClassFromExpression")\ninternal fun <T : Any>
getKClassFromExpression(e: T): KClass<T> =\n when (jsTypeOf(e)) {\n "string" ->
PrimitiveClasses.stringClass\n "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n "boolean" -> PrimitiveClasses.booleanClass\n
"function" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n else -> {\n when
{\n e is BooleanArray -> PrimitiveClasses.booleanArrayClass\n e is CharArray ->
PrimitiveClasses.charArrayClass\n e is ByteArray -> PrimitiveClasses.byteArrayClass\n e is
ShortArray -> PrimitiveClasses.shortArrayClass\n e is IntArray -> PrimitiveClasses.intArrayClass\n

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    e is LongArray -> PrimitiveClasses.longArrayClass\n
    PrimitiveClasses.floatArrayClass\n
    KClass<*> -> KClass::class\n
    val constructor = js("Object").getPrototypeOf(e).constructor\n
    === js("Object") -> PrimitiveClasses.anyClass\n
    PrimitiveClasses.throwableClass\n
    else -> {\n
        val jsClass: JsClass<T> = constructor\n
        getKClass1(jsClass)\n
    }\n
}.\nunsafeCast<KClass<T>>()\n\n@JsName("getKClass1")\ninternal fun <T : Any> getKClass1(jClass:
JsClass<T>): KClass<T> {\n    if (jClass === js("String")) return
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n    val metadata = jClass.asDynamic().`$metadata$\n
return if (metadata != null) {\n        if (metadata.`$kClass$` == null) {\n            val kClass =
SimpleKClassImpl(jClass)\n            metadata.`$kClass$` = kClass\n            kClass\n        } else {\n
metadata.`$kClass$`\n        }\n    } else {\n        SimpleKClassImpl(jClass)\n    }\n}\n\n/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n *\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n
*\n\n@Suppress("NOT_DOCUMENTED")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n\n    public fun test(str: String): Boolean\n\n    public fun exec(str: String): RegExpMatch?\n\n
    public override fun toString(): String\n\n    /**\n     * The lastIndex is a read/write integer property of regular
expressions that specifies the index at which to start the next match.\n     *\n     * public var lastIndex: Int\n\n    public
val global: Boolean\n    public val ignoreCase: Boolean\n    public val multiline: Boolean\n}\n\n/**\n * Resets the
regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
of the input string.\n *\n\npublic fun RegExp.reset() {\n    lastIndex = 0\n}\n\n// TODO: Inherit from array or
introduce asArray() extension\n\n/**\n * Represents the return value of [RegExp.exec].\n
*\n\n@Suppress("NOT_DOCUMENTED")\npublic external interface RegExpMatch {\n    public val index: Int\n
public val input: String\n    public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if
the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n *\n\npublic inline
operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of
[RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element
is the text matched by each capturing parenthesis.\n *\n\npublic inline fun RegExpMatch.asArray(): Array<out
String?> = unsafeCast<Array<out String?>>()\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt
file.\n *\n\npackage kotlin.sequences\n\ninternal actual class ConstrainedOnceSequence<T> actual
constructor(sequence: Sequence<T>) : Sequence<T> {\n    private var sequenceRef: Sequence<T>? = sequence\n\n
actual override fun iterator(): Iterator<T> {\n        val sequence = sequenceRef ?: throw IllegalStateException("This
sequence can be consumed only once.")\n        sequenceRef = null\n        return sequence.iterator()\n    }\n}\n\n/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage
kotlin.text\n\n@SinceKotlin("1.5")\npublic actual enum class CharCategory(internal val value: Int, public actual
val code: String) {\n    /**\n     * General category \"Cn\" in the Unicode specification.\n     *\n     * UNASSIGNED(0,
\"Cn\"),\n\n    /**\n     * General category \"Lu\" in the Unicode specification.\n     *\n     * UPPERCASE_LETTER(1, \"Lu\"),\n\n    /**\n     * General category \"Ll\" in the Unicode specification.\n     *\n     * LOWERCASE_LETTER(2, \"Ll\"),\n\n    /**\n     * General category \"Lt\" in the Unicode specification.\n     *\n     * TITLECASE_LETTER(3, \"Lt\"),\n\n    /**\n     * General category \"Lm\" in the Unicode specification.\n     *\n     * MODIFIER_LETTER(4, \"Lm\"),\n\n    /**\n     * General category \"Lo\" in the Unicode specification.\n

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*\n OTHER_LETTER(5, \"Lo\"),\n\n /**\n * General category \"Mn\" in the Unicode specification.\n */\n
NON_SPACING_MARK(6, \"Mn\"),\n\n /**\n * General category \"Me\" in the Unicode specification.\n */\n
*\n ENCLOSING_MARK(7, \"Me\"),\n\n /**\n * General category \"Mc\" in the Unicode specification.\n */\n
*\n COMBINING_SPACING_MARK(8, \"Mc\"),\n\n /**\n * General category \"Nd\" in the Unicode
specification.\n */\n
DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n /**\n * General
category \"Nl\" in the Unicode specification.\n */\n
LETTER_NUMBER(10, \"Nl\"),\n\n /**\n * General
category \"No\" in the Unicode specification.\n */\n
OTHER_NUMBER(11, \"No\"),\n\n /**\n * General
category \"Zs\" in the Unicode specification.\n */\n
SPACE_SEPARATOR(12, \"Zs\"),\n\n /**\n * General
category \"Zl\" in the Unicode specification.\n */\n
LINE_SEPARATOR(13, \"Zl\"),\n\n /**\n * General
category \"Zp\" in the Unicode specification.\n */\n
PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n /**\n *
General category \"Cc\" in the Unicode specification.\n */\n
CONTROL(15, \"Cc\"),\n\n /**\n * General
category \"Cf\" in the Unicode specification.\n */\n
FORMAT(16, \"Cf\"),\n\n /**\n * General category
\"Co\" in the Unicode specification.\n */\n
PRIVATE_USE(18, \"Co\"),\n\n /**\n * General category
\"Cs\" in the Unicode specification.\n */\n
SURROGATE(19, \"Cs\"),\n\n /**\n
* General category \"Pd\" in the Unicode specification.\n */\n
DASH_PUNCTUATION(20, \"Pd\"),\n\n
/**\n * General category \"Ps\" in the Unicode specification.\n */\n
START_PUNCTUATION(21,
\"Ps\"),\n\n /**\n * General category \"Pe\" in the Unicode specification.\n */\n
END_PUNCTUATION(22,
\"Pe\"),\n\n /**\n * General category \"Pc\" in the Unicode specification.\n */\n
CONNECTOR_PUNCTUATION(23, \"Pc\"),\n\n /**\n * General category \"Po\" in the Unicode
specification.\n */\n
OTHER_PUNCTUATION(24, \"Po\"),\n\n /**\n * General category \"Sm\" in the
Unicode specification.\n */\n
MATH_SYMBOL(25, \"Sm\"),\n\n /**\n * General category \"Sc\" in the
Unicode specification.\n */\n
CURRENCY_SYMBOL(26, \"Sc\"),\n\n /**\n * General category \"Sk\" in
the Unicode specification.\n */\n
MODIFIER_SYMBOL(27, \"Sk\"),\n\n /**\n * General category \"So\" in
the Unicode specification.\n */\n
OTHER_SYMBOL(28, \"So\"),\n\n /**\n * General category \"Pi\" in the Unicode specification.\n */\n
INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n /**\n * General category \"Pf\" in the Unicode
specification.\n */\n
FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n /**\n * Returns `true` if [char]
character belongs to this category.\n */\n
public actual operator fun contains(char: Char): Boolean =
char.getCategoryValue() == this.value\n\n companion object {\n    internal fun valueOf(category: Int):
CharCategory =\n        when (category) {\n            in 0..16 -> values()[category]\n            in 18..30 ->
values()[category - 1]\n            else -> throw IllegalArgumentException(\"Category #\$category is not defined.\")\n        }\n    }\n\n }"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding
or decoding error occurs.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
actual open class CharacterCodingException(message: String?) : Exception(message) {\n    actual constructor() :
this(null)\n\n }"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n\n/**\n * A mutable sequence of characters.\n */\n\n * String builder can be used to
efficiently perform multiple string manipulation operations.\n */\n\npublic actual class StringBuilder actual
constructor(content: String) : Appendable, CharSequence {\n    /**\n     * Constructs an empty string builder with
the specified initial [capacity].\n     */\n    * In Kotlin/JS implementation of StringBuilder the initial
capacity has no effect on the further performance of operations.\n     */\n    actual constructor(capacity: Int) : this()
{\n    }\n\n    /**\n     * Constructs a string builder that contains the same characters as the specified [content] char
sequence.\n     */\n    actual constructor(content: CharSequence) : this(content.toString()) {\n    }\n\n    /**\n     * Constructs an
empty string builder.\n     */\n    actual constructor() : this(\"\")\n\n    private var string: String = if (content !==
undefined) content else \"\"\n\n    actual override val length: Int\n        get() = string.asDynamic().length\n\n    actual
override fun get(index: Int): Char =\n        string.getOrElse(index) { throw IndexOutOfBoundsException(\"index:

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$index, length: $length}") } \n\n actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence =
string.substring(startIndex, endIndex)\n\n actual override fun append(value: Char): StringBuilder {\n string +=
value\n return this\n } \n\n actual override
fun append(value: CharSequence?): StringBuilder {\n string += value.toString()\n return this\n } \n\n
actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder = \n
this.appendRange(value ?: "null", startIndex, endIndex)\n\n /**\n * Reverses the contents of this string builder
and returns this instance.\n *\n * Surrogate pairs included in this string builder are treated as single
characters.\n * Therefore, the order of the high-low surrogates is never reversed.\n *\n * Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n * For example, reversing "\uDC00\uD800" produces "\uD800\uDC00" which is a valid
surrogate pair.\n *\n actual fun reverse(): StringBuilder {\n var reversed = ""\n var index =
string.length - 1\n while (index >= 0) {\n val low = string[index--]\n
if (low.isLowSurrogate() && index >= 0) {\n val high = string[index--]\n if
(high.isHighSurrogate()) {\n reversed = reversed + high + low\n } else {\n reversed
= reversed + low + high\n } else {\n reversed += low\n } \n string =
reversed\n return this\n } \n\n /**\n * Appends the string representation of the specified object [value] to
this string builder and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted
to a string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n *\n
actual fun append(value: Any?): StringBuilder {\n string += value.toString()\n return this\n } \n\n /**\n
* Appends the string representation of the specified boolean [value] to this string
builder and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a
string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n *\n
@SinceKotlin("1.3")\n actual fun append(value: Boolean): StringBuilder {\n string += value\n return
this\n } \n\n /**\n * Appends characters in the specified character array [value] to this string builder and
returns this instance.\n *\n * Characters are appended in order, starting at the index 0.\n *\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun append(value:
CharArray): StringBuilder {\n string += value.concatToString()\n return this\n } \n\n /**\n * Appends
the specified string [value] to this string builder and returns this instance.\n *\n * If [value] is `null`, then the
four characters `null` are appended.\n *\n
@SinceKotlin("1.3")\n actual fun append(value: String?): StringBuilder {\n this.string += value ?:
"null"\n return this\n } \n\n /**\n * Returns the current capacity of this string builder.\n *\n * The
capacity is the maximum length this string builder can have before an allocation occurs.\n *\n * In Kotlin/JS
implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing
storage.\n *\n @SinceKotlin("1.3")\n // @ExperimentalStdlibApi\n @Deprecated("Obtaining
StringBuilder capacity is not supported in JS and common code.", level = DeprecationLevel.WARNING)\n actual
fun capacity(): Int = length\n\n /**\n * Ensures that the capacity of this string builder is at least equal to the
specified [minimumCapacity].\n *\n * If the current capacity is less than the [minimumCapacity], a new
backing storage is allocated with greater capacity.\n *\n * Otherwise, this
method takes no action and simply returns.\n *\n * In Kotlin/JS implementation of StringBuilder the size of the
backing storage is not extended to comply the given [minimumCapacity],\n * thus calling this method has no
effect on the further performance of operations.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun ensureCapacity(minimumCapacity: Int) {\n
}\n\n /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n *\n
* Returns -1 if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string: String): Int =
this.string.asDynamic().indexOf(string)\n\n /**\n * Returns the index within this string builder of the first
occurrence of the specified [string],\n * starting at the specified [startIndex].\n *\n * Returns

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-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun indexOf(string: String,
startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n
 /**\n
 * Returns the index within
this string builder of the last occurrence of the specified [string].\n
 * The last occurrence of empty string `` is
considered to be at the index equal to `this.length`.\n
 * Returns -1` if the specified [string] does not occur
in this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n
 /**\n
 * Returns the
index within this string builder of the last occurrence of the specified [string],\n
 * starting from the specified
[startIndex] toward the beginning.\n
 *^n
 * Returns -1` if the specified [string] does not occur in this string builder starting at the specified
[startIndex].\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun
lastIndexOf(string: String, startIndex: Int): Int {\n
    if (string.isEmpty() && startIndex < 0) return -1\n
    return
this.string.asDynamic().lastIndexOf(string, startIndex)\n
 }\n
 /**\n
 * Inserts the string representation of the
specified boolean [value] into this string builder at the specified [index] and returns this instance.\n
 *^n
 * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
 * and then
that string was inserted into this string builder at the specified [index].\n
 *^n
 * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value: Boolean): StringBuilder {\n
    AbstractList.checkPositionIndex(index,
length)\n
    string = string.substring(0, index) + value + string.substring(index)\n
    return this\n
 }\n
 /**\n
 * Inserts the specified character [value] into this string builder at the specified [index] and returns this
instance.\n
 *^n
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value: Char): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n
    string = string.substring(0, index) + value + string.substring(index)\n
    return this\n
 }\n
 /**\n
 * Inserts
characters in the specified character array [value] into this string builder at the specified [index] and returns this
instance.\n
 *^n
 * The inserted characters go in same order as in the [value] character array, starting at [index].\n
 *^n
 *
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int,
value: CharArray): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n
    string =
string.substring(0, index) + value.concatToString() + string.substring(index)\n
    return this\n
 }\n
 /**\n
 *
Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and
returns this instance.\n
 *^n
 * The inserted characters go in the same order as in the [value] character sequence,
starting at [index].\n
 *^n
 * @param index the position in this string builder to insert at.\n
 * @param value the
character sequence from which characters
are inserted. If [value] is `null`, then the four characters `null` are inserted.\n
 *^n
 * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value:
CharSequence?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n
    string =
string.substring(0, index) + value.toString() + string.substring(index)\n
    return this\n
 }\n
 /**\n
 * Inserts
the string representation of the specified object [value] into this string builder at the specified [index] and returns
this instance.\n
 *^n
 * The overall effect is exactly as if the [value] were converted to a string by the
`value.toString()` method,\n
 * and then that string was inserted into this string builder at the specified [index].\n
 *^n
 * @throws IndexOutOfBoundsException if [index]
is less than zero or greater than the length of this string builder.\n
 *^n
@SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n
actual fun insert(index: Int, value: Any?): StringBuilder {\n
    AbstractList.checkPositionIndex(index, length)\n
    string = string.substring(0, index) + value.toString() +

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string.substring(index)\n    return this\n }\n\n /**\n  * Inserts the string [value] into this string builder at the
specified [index] and returns this instance.\n  *\n  * If [value] is `null`, then the four characters `\\null` are
inserted.\n  *\n  * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun insert(index: Int, value: String?): StringBuilder {\n    AbstractList.checkPositionIndex(index,
length)\n\n    val toInsert = value ?: "\\null"\n\n    this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)\n    return this\n }\n\n /**\n  * Sets the length of this string builder to the specified [newLength].\n  *\n  * If the [newLength] is less
than the current length, it is changed to the specified [newLength].\n  * Otherwise, null characters `\\u0000` are
appended to this string builder until its length is less than the [newLength].\n  *\n  * Note that in Kotlin/JS [set]
operator function has non-constant execution time complexity.\n  * Therefore, increasing length of this string
builder and then updating each character by index may slow down your program.\n  *\n  * @throws
IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n  *^\n
@SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun setLength(newLength:
Int) {\n    if (newLength < 0) {\n      throw IllegalArgumentException("Negative
new length: $newLength.")\n    }\n\n    if (newLength <= length) {\n      string = string.substring(0,
newLength)\n    } else {\n      for (i in length until newLength) {\n        string += "\\u0000"\n      }\n    }\n  }\n\n /**\n  * Returns a new [String] that contains characters in this string builder at [startIndex]
(inclusive) and up to the [length] (exclusive).\n  *\n  * @throws IndexOutOfBoundsException if [startIndex] is
less than zero or greater than the length of this string builder.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun substring(startIndex: Int): String {\n
AbstractList.checkPositionIndex(startIndex, length)\n\n    return string.substring(startIndex)\n }\n\n /**\n  * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).\n  *\n  * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of this string builder indices or when `startIndex > endIndex`.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun substring(startIndex: Int, endIndex: Int): String
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n    return string.substring(startIndex,
endIndex)\n }\n\n /**\n  * Attempts to reduce storage used for this string builder.\n  *\n  * If the backing
storage of this string builder is larger than necessary to hold its current contents,\n  * then it may be resized to
become more space efficient.\n  * Calling this method may, but is not required to, affect the value of the [capacity]
property.\n  *\n  * In Kotlin/JS implementation of String Builder the size of the backing storage is always equal
to the length of the string builder.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  actual fun trimToSize() {\n  }\n\n  override fun
toString(): String = string\n\n /**\n  * Clears the content of this string builder making it empty and returns this
instance.\n  *\n  * @sample samples.text.Strings.clearStringBuilder\n  *^\n  @SinceKotlin("1.3")\n  public
fun clear(): String Builder {\n    string = ""\n    return this\n }\n\n /**\n  * Sets the character at the
specified [index] to the specified [value].\n  *\n  * @throws IndexOutOfBoundsException if [index] is out of
bounds of this string builder.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  public operator fun set(index: Int, value: Char) {\n
AbstractList.checkElementIndex(index, length)\n\n    string = string.substring(0, index) + value +
string.substring(index + 1)\n  }\n\n /**\n  * Replaces characters in the specified range of this string
builder with characters in the specified string [value] and returns this instance.\n  *\n  * @param startIndex the
beginning (inclusive) of the range to replace.\n  * @param endIndex the end (exclusive) of the range to replace.\n
* @param value the string to replace with.\n  *\n  * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or
`startIndex > endIndex`.\n  *^\n  @SinceKotlin("1.4")\n  @WasExperimental(ExperimentalStdlibApi::class)\n  public fun setRange(startIndex: Int, endIndex: Int, value: String): String Builder {\n

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checkReplaceRange(startIndex, endIndex, length)\n\n    this.string = this.string.substring(0, startIndex) + value +
this.string.substring(endIndex)\n    return this\n }\n\n private fun checkReplaceRange(startIndex: Int,
endIndex: Int, length: Int) {\n    if (startIndex < 0 || startIndex > length) {\n        throw
IndexOutOfBoundsException("startIndex: $startIndex, length: $length")\n    }\n    if (startIndex > endIndex)
{\n        throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")\n    }\n }\n\n /**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *
* If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire
supplementary character.\n *
* @param index the index of `Char` to remove.\n *
* @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n *
* @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteAt(index: Int): StringBuilder {\n
AbstractList.checkElementIndex(index, length)\n\n    string = string.substring(0, index) + string.substring(index +
1)\n    return this\n }\n\n /**\n * Removes
characters in the specified range from this string builder and returns this instance.\n *
* @param startIndex
the beginning (inclusive) of the range to remove.\n *
* @param endIndex the end (exclusive) of the range to
remove.\n *
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is
out of range of this string builder indices or when `startIndex > endIndex`.\n *
* @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteRange(startIndex: Int, endIndex: Int):
StringBuilder {\n    checkReplaceRange(startIndex, endIndex, length)\n\n    string = string.substring(0,
startIndex) + string.substring(endIndex)\n    return this\n }\n\n /**\n * Copies characters from this string
builder into the [destination] character array.\n *
* @param destination the array to copy to.\n *
* @param
destinationOffset the position in the array to copy to, 0 by default.\n *
* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n *
* @param endIndex the end
(exclusive) of the range to copy, length of this string builder by default.\n *
* @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.\n *
* @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n *
* or when that index
is out of the [destination] array indices range.\n *
* @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray,
destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex,
destination.size)\n\n    var dstIndex = destinationOffset\n    for (index in startIndex until endIndex) {\n
destination[dstIndex++] = string[index]\n    }\n }\n\n /**\n * Appends characters in a subarray of the
specified character array [value] to this string builder and returns this instance.\n *
* Characters are appended
in order, starting at specified [startIndex].\n *
* @param value the array from which characters are
appended.\n *
* @param startIndex the beginning (inclusive) of the subarray to append.\n *
* @param endIndex
the end (exclusive) of the subarray to append.\n *
* @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n *
* @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int):
StringBuilder {\n    string += value.concatToString(startIndex, endIndex)\n    return this\n }\n\n /**\n *
Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *
*
* @param value the character sequence from which a subsequence is appended.\n *
* @param startIndex the
beginning (inclusive) of the subsequence to append.\n *
* @param endIndex the end (exclusive) of the subsequence
to append.\n *
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or
[endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n *
* @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun appendRange(value:
CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n    val stringCsq = value.toString()\n

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AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n
    string += stringCsq.substring(startIndex, endIndex)\n    return this\n }\n\n /**\n  * Inserts characters in
a subarray of the specified character array [value] into this string builder at the specified [index] and returns this
instance.\n  *\n  * The inserted characters go in same order as in the [value] array, starting at [index].\n  *\n
* @param index the position in this string builder to insert at.\n  * @param value the array from which characters
are inserted.\n  * @param startIndex the beginning (inclusive) of the subarray to insert.\n  * @param endIndex
the end (exclusive) of the subarray to insert.\n  *\n  * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n  * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n  */\n  @SinceKotlin("1.4")\n
    @WasExperimental(ExperimentalStdlibApi::class)\n    public fun insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): String Builder {\n        AbstractList.checkPositionIndex(index, this.length)\n\n
string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n
return this\n }\n\n /**\n  * Inserts characters in a subsequence of the specified character sequence [value] into
this string builder at the specified [index] and returns this instance.\n  *\n  * The inserted characters go in the
same order as in the [value] character sequence, starting at [index].\n  *\n  * @param index the position in this
string builder to insert at.\n  * @param value the character sequence from which a subsequence is inserted.\n  *
* @param startIndex the beginning (inclusive) of the subsequence to insert.\n  * @param endIndex the end
(exclusive) of the subsequence to insert.\n  *\n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of the [value] character sequence indices or when `startIndex > endIndex`.\n  * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n  */\n
    @SinceKotlin("1.4")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    public fun insertRange(index: Int,
value: CharSequence, startIndex: Int, endIndex: Int): String Builder {\n        AbstractList.checkPositionIndex(index,
length)\n\n        val stringCsq = value.toString()\n        AbstractList.checkBoundsIndexes(startIndex, endIndex,
stringCsq.length)\n\n        string = string.substring(0, index) + stringCsq.substring(startIndex, endIndex) +
string.substring(index)\n        return this\n }\n}\n\n\n/**\n * Clears the content of this string builder making it
empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n
*/\n@SinceKotlin("1.3")\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER",
"NOTHING_TO_INLINE")\npublic actual inline fun String Builder.clear(): String Builder = this.clear()\n\n/**\n *
Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if
[index] is out of bounds of this string builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline operator fun
String Builder.set(index: Int, value: Char) = this.set(index, value)\n\n/**\n * Replaces characters in the specified
range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param
startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to
replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if
[startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
String Builder.setRange(startIndex: Int, endIndex: Int, value: String): String Builder =\n    this.setRange(startIndex,
endIndex, value)\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this
instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not
remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA

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DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun StringBuilder.deleteAt(index:
Int): StringBuilder = this.deleteAt(index)\n\n/**\n * Removes characters in the specified range from this string
builder and returns this instance.\n * \n * @param startIndex the beginning (inclusive) of the range to remove.\n *
@param endIndex the end (exclusive) of the range to remove.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex,
endIndex)\n\n/**\n * Copies characters from this string builder into the [destination] character array.\n * \n *
@param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by
default.\n * @param startIndex
the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range
to copy, length of this string builder by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when
`startIndex > endIndex`.\n * \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the
[destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination]
array indices range.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE",
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length) =\n this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n *
Appends characters in a subarray of the specified character array [value] to this string builder and returns this
instance.\n * \n * Characters are appended in order, starting at specified [startIndex].\n * \n * @param value the array
from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n *
@param endIndex the end (exclusive) of the subarray to append.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character
sequence [value] to this string
builder and returns this instance.\n * \n * @param value the character sequence from which a subsequence is
appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the
end (exclusive) of the subsequence to append.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character
array [value] into this string builder at the specified [index] and returns this instance.\n * \n * The inserted
characters go in same order as in
the [value] array, starting at [index].\n * \n * @param index the position in this string builder to insert at.\n *
@param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the
subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n * \n * @throws

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IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`. \n \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder. \n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the
specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n * \n *
The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n * \n * @param
index the position in this string builder to insert at.\n * @param value the character sequence from which a
subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param
endIndex the end (exclusive) of the subsequence to insert.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder. \n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline
fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n
this.insertRange(index, value, startIndex, endIndex)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\npackage kotlin.text\n\n/**\n * Returns `true` if this string is not
`null` and its content is equal to the word `true`, ignoring case, and `false` otherwise.\n * \n * There are also strict
versions of the function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull]. \n
*\n@SinceKotlin("1.4")\npublic actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() ==
`true`\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual
fun String.toByte(): Byte = toByteOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a signed
[Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n *\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?:
numberFormatException(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual fun
String.toShort(): Short = toShortOrNull() ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Short]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\npublic actual
fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string
as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n *\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatException(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatException(this)\n\n/**\n *
Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

```

```

*public actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)
Parses the string as a [Double] number and returns the result. @throws NumberFormatException if the string is
not a valid representation of a number.
*public actual fun String.toDouble(): Double =
+(this.asDynamic()).unsafeCast<Double>().also { if (it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank()) numberFormatError(this) }
Parses the string as a [Float] number and returns the
result. @throws NumberFormatException if the string is not a valid representation of a number.
*internal inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()
Parses
the string as a [Double] number and returns the result or `null` if the string is not a valid representation of a
number.
*public actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf { !it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank() }
Parses the string as a [Float] number and returns the result or `null` if the string is
not a valid representation of a number.
*internal inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()
Returns a string representation
of this [Byte] value in the specified [radix]. @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.
*internal inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)
Returns a string representation of
this [Short] value in the
specified [radix]. @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.
*internal inline fun Short.toString(radix:
Int): String = this.toInt().toString(radix)
Returns a string representation of this [Int] value in the specified
[radix]. @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.
*internal fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))
private fun String.isNaN(): Boolean = when (this.lowercase()) {
"nan", "+nan", "-nan" -> true
else -> false
}
Checks whether the given [radix] is valid radix for
string to number and number to string conversion.
*internal fun checkRadix(radix: Int):
Int { if (radix !in 2..36) { throw IllegalArgumentException("radix $radix was not
in valid range 2..36") }
return radix }
internal fun digitOf(char: Char, radix: Int): Int = when {
char >= '0' && char <= '9' -> char - '0'
char >= 'A' && char <= 'Z' -> char - 'A' + 10
char >= 'a' && char <=
'z' -> char - 'a' + 10
char < '\u0080' -> -1
char >= '\uFF21' && char <= '\uFF3A' -> char - '\uFF21' + 10 //
full-width latin capital letter
char >= '\uFF41' && char <= '\uFF5A' -> char - '\uFF41' + 10 // full-width latin
small letter
else -> char.digitToIntImpl()
}.let { if (it >= radix) -1 else it }
"/**
Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.
Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
*/
package kotlin.text
import
kotlin.js.RegExp
Provides enumeration values to use to set regular expression options.
*public actual
enum class RegexOptions(val value: String) {
/**
Enables case-insensitive matching.
IGNORE_CASE("i"),
/** Enables multiline mode.
In
multiline mode the expressions `^` and `$` match just after or just before,
respectively, a line terminator or the
end of the input sequence.
MULTILINE("m")
private fun Iterable<RegexOption>.toFlags(prepend:
String): String = joinToString("\", prefix = prepend) { it.value }
Represents the results from a single
capturing group within a [MatchResult] of [Regex].
@param value The value of captured group.
*public
actual data class MatchGroup(actual val value: String) {
Returns a named group with the specified
[name].
@return An instance of [MatchGroup] if the group with the specified [name] was matched or `null`
otherwise.
@throws IllegalArgumentException if there is no group with the specified [name] defined in the
regex pattern.
@throws UnsupportedOperationException if this match group collection doesn't
support getting match groups by name,
for example, when it's not supported by the current platform.
*internal fun MatchGroupCollection.get(name: String): MatchGroup? {
val namedGroups = this as? MatchNamedGroupCollection
?: throw

```



```

UnsupportedOperationException("Retrieving groups by name is not supported on this platform.")\n\n return
namedGroups[name]\n}\n\n\n/**\n * Represents a compiled regular expression.\n * Provides functions to match
strings in text with a pattern, replace the found occurrences and split text around matches.\n *\n * For pattern syntax
reference see [MDN RegExp](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n
n * and
[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n
*\n * Note that `RegExp` objects under the hood are constructed with [the `u`
flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode)\n *
that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict,\n *
for example, prohibiting unnecessary escape sequences.\n *\n * @constructor Creates a regular expression from the
specified [pattern] string and the specified set of [options].\n */\npublic actual class Regex actual
constructor(pattern: String, options: Set<RegexOption>) {\n\n /** Creates a regular expression from the specified
[pattern] string and the specified single [option]. */\n public actual constructor(pattern: String, option:
RegexOption) : this(pattern, setOf(option))\n\n /** Creates a regular expression from the specified [pattern] string
and the default options. */\n public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n /** The
pattern string of this regular expression. */\n public actual val pattern: String = pattern\n\n /** The set of
options that were used to create this regular expression. */\n public actual val options:
Set<RegexOption> = options.toSet()\n private val nativePattern: RegExp = RegExp(pattern,
options.toFlags("gu"))\n private var nativeStickyPattern: RegExp? = null\n private fun initStickyPattern():
RegExp =\n nativeStickyPattern?: RegExp(pattern, options.toFlags("yu")).also { nativeStickyPattern = it }\n\n
private var nativeMatchesEntirePattern: RegExp? = null\n private fun initMatchesEntirePattern(): RegExp =\n
nativeMatchesEntirePattern?: run {\n if (pattern.startsWith('^') && pattern.endsWith('$'))\n
nativePattern\n else\n return RegExp("^${pattern.trimStart('^').trimEnd('$')}\$"),
options.toFlags("gu"))\n }.also { nativeMatchesEntirePattern = it }\n\n\n /** Indicates whether the regular
expression matches the entire [input]. */\n public actual infix fun matches(input:
CharSequence): Boolean {\n nativePattern.reset()\n val match = nativePattern.exec(input.toString())\n
return match != null && match.index == 0 && nativePattern.lastIndex == input.length\n }\n\n /** Indicates
whether the regular expression can find at least one match in the specified [input]. */\n public actual fun
containsMatchIn(input: CharSequence): Boolean {\n nativePattern.reset()\n return
nativePattern.test(input.toString())\n }\n\n @SinceKotlin("1.7")\n @WasExperimental(ExperimentalStdlibApi::class)\n
public actual fun matchesAt(input: CharSequence, index:
Int): Boolean {\n if (index < 0 || index > input.length) {\n throw IndexOutOfBoundsException("index
out of bounds: $index, input length: ${input.length}")\n }\n val pattern = initStickyPattern()\n
pattern.lastIndex = index\n return pattern.test(input.toString())\n }\n\n /**\n * Returns the first match of a
regular
expression in the [input], beginning at the specified [startIndex].\n *\n * @param startIndex An index to start
search with, by default 0. Must be not less than zero and not greater than `input.length()`\n * @return An instance
of [MatchResult] if match was found or `null` otherwise.\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or greater than the length of the [input] char sequence.\n * @sample
samples.text.Regexp.find\n */\n\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun find(input:
CharSequence, startIndex: Int = 0): MatchResult? {\n if (startIndex < 0 || startIndex > input.length) {\n
throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")\n
}\n return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n }\n\n /**\n * Returns a
sequence of all occurrences of a regular expression within the
[input] string, beginning at the specified [startIndex].\n *\n * @throws IndexOutOfBoundsException if
[startIndex] is less than zero or greater than the length of the [input] char sequence.\n *\n * @sample

```

```

samples.text.Regexps.findAll\n    */\n
@Suppress(\\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\\")\n    public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n        if (startIndex < 0 || startIndex > input.length)
{\n            throw IndexOutOfBoundsException(\\"Start index out of bounds: $startIndex, input length:
${input.length}\\")\n        }\n        return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n
}\n\n    /**\n     * Attempts to match the entire [input] CharSequence against the pattern.\n     */\n    @return An
instance of [MatchResult] if the entire input matches or `null` otherwise.\n    */\n    public actual fun
matchEntire(input: CharSequence): MatchResult? =\n        initMatchesEntirePattern().findNext(input.toString(),
0, nativePattern)\n\n    @SinceKotlin(\\"1.7\\")\n    @WasExperimental(ExperimentalStdlibApi::class)\n    public
actual fun matchAt(input: CharSequence, index: Int): MatchResult? {\n        if (index < 0 || index > input.length) {\n
            throw IndexOutOfBoundsException(\\"index out of bounds: $index, input length: ${input.length}\\")\n        }\n
        return initStickyPattern().findNext(input.toString(), index, nativePattern)\n    }\n\n    /**\n     * Replaces all
occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n     */\n
    * The replacement string may contain references to the captured groups during a match. Occurrences of `${name}`
or `${index}`\n     * in the replacement string will be substituted with the subsequences corresponding to the captured
groups with the specified name or index.\n     * In case of `${index}`, the first digit after '$' is always treated as a part
of group
reference. Subsequent digits are incorporated\n     * into `index` only if they would form a valid group reference.
Only the digits '0'..'9' are considered as potential components\n     * of the group reference. Note that indexes of
captured groups start from 1, and the group with index 0 is the whole match.\n     * In case of `${name}`, the `name`
can consist of latin letters 'a'..'z' and 'A'..'Z', or digits '0'..'9'. The first character must be\n     * a letter.\n     */\n
    * Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g, '\\$`
or '\\\\\\'.\n     * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n     */\n
    * @param input the char sequence to find matches of this regular expression in\n     * @param replacement the
expression to replace found matches with\n     * @return the result of replacing each occurrence of this regular
expression in [input] with the result
of evaluating the [replacement] expression\n     * @throws RuntimeException if [replacement] expression is
malformed, or capturing group with specified `name` or `index` does not exist\n     */\n    public actual fun
replace(input: CharSequence, replacement: String): String {\n        if (!replacement.contains("\\\\\\\\") &&
!replacement.contains('$')) {\n            return input.toString().nativeReplace(nativePattern, replacement)\n        }\n
return replace(input) { substituteGroupRefs(it, replacement) }\n    }\n\n    /**\n     * Replaces all occurrences of this
regular expression in the specified [input] string with the result of\n     * the given function [transform] that takes
[MatchResult] and returns a string to be used as a\n     * replacement for that match.\n     */\n    public actual fun
replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\n        var match = find(input)\n
        if (match == null) return input.toString()\n        var lastStart
= 0\n        val length = input.length\n        val sb = StringBuilder(length)\n        do {\n            val foundMatch =
match!!\n            sb.append(input, lastStart, foundMatch.range.start)\n            sb.append(transform(foundMatch))\n
            lastStart = foundMatch.range.endInclusive + 1\n            match = foundMatch.next()\n        } while (lastStart <
length && match != null)\n        if (lastStart < length) {\n            sb.append(input, lastStart, length)\n        }\n
return sb.toString()\n    }\n\n    /**\n     * Replaces the first occurrence of this regular expression in the specified
[input] string with specified [replacement] expression.\n     */\n     * The replacement string may contain references to
the captured groups during a match. Occurrences of `${name}` or `${index}`\n     * in the replacement string will be
substituted with the subsequences corresponding to the captured groups with the specified name or index.\n     * In
case of `${index}`,
the first digit after '$' is always treated as a part of group reference. Subsequent digits are incorporated\n     * into
`index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential
components\n     * of the group reference. Note that indexes of captured groups start from 1, and the group with
index 0 is the whole match.\n     * In case of `${name}`, the `name` can consist of latin letters 'a'..'z' and 'A'..'Z', or

```

digits '0'..'9'. The first character must be a letter. Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g. '\\\$' or '\\\\\\'. [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string. @param input the char sequence to find a match of this regular expression in @param replacement the expression to replace the found match with @return the result of replacing the first

occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist

```

public actual fun replaceFirst(input: CharSequence, replacement: String): String {
    if (!replacement.contains("\\\\") && !replacement.contains('$')) {
        val nonGlobalOptions =
            options.toFlags("\\u")
        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions),
            replacement)
    }
    val match = find(input) ?: return input.toString()
    return buildString {
        append(input.substring(0, match.range.first))
        append(substituteGroupRefs(match, replacement))
        append(input.substring(match.range.last + 1, input.length))
    }
}

```

Splits the [input] CharSequence to a list of strings around matches of this regular expression. @param limit Non-negative value specifying the maximum number of substrings the string can be split to. Zero by default means no limit is set.

```

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun split(input:
CharSequence, limit: Int = 0): List<String> {
    requireNonNegativeLimit(limit)
    val matches =
        findAll(input).let { if (limit == 0) it else it.take(limit - 1) }
    val result = mutableListOf<String>()
    var
        lastStart = 0
    for (match in matches) {
        result.add(input.subSequence(lastStart,
            match.range.start).toString())
        lastStart = match.range.endInclusive + 1
    }
    result.add(input.subSequence(lastStart, input.length).toString())
    return result
}

```

Splits the [input] CharSequence to a sequence of strings around matches of this regular expression. @param limit Non-negative value specifying the maximum number of substrings the string can be split to. Zero by default means no limit is set.

```

@sample samples.text.Regexps.splitToSequence
@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun
splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {
    requireNonNegativeLimit(limit)
    return sequence {
        var match = find(input)
        if (match ==
            null || limit == 1) {
            yield(input.toString())
            return@sequence
        }
        var
            nextStart = 0
        var splitCount = 0
        do {
            val foundMatch = match!!
            yield(input.substring(nextStart, foundMatch.range.first))
            nextStart = foundMatch.range.endInclusive +
                1
            match = foundMatch.next()
        } while (++splitCount != limit
            - 1 && match != null)
        yield(input.substring(nextStart, input.length))
    }
}

```

Returns the string representation of this regular expression, namely the [pattern] of this regular expression. Note that another regular expression constructed from the same pattern string may have different [options] and may match strings differently.

```

public override fun toString(): String = nativePattern.toString()
actual companion object {
    /**
     * Returns a regular expression that matches the specified [literal] string
     * literally.
     * No characters of that string will have special meaning when searching for an occurrence of the
     * regular expression.
     */
    public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))
    /**
     * Returns a regular expression pattern string that matches the specified [literal] string literally.
     * No characters

```

of that string will have special meaning when searching for an occurrence of the regular expression.

```

public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\|\\$&!")
Returns a literal replacement expression for the specified [literal] string.
No characters of that string will
have special meaning when it is used as a replacement string in [Regex.replace] function.
public
actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\|\\$&!")

```



```

    throw IndexOutOfBoundsException("Group
with index $groupIndex does not exist")\n        result.append(groups[groupIndex]?.value ?: "")\n
index = endIndex\n        }\n        } else {\n        result.append(char)\n        }\n        }\n        return
result.toString()\n}\n\n// The name must be a legal JavaScript identifier. See https://262.ecma-
international.org/5.1/#sec-7.6\n// Don't try to validate the referenced group name as it may be time-consuming.\n// If
the name is invalid, it won't be found in `match.groups` anyway and will throw.\n// Group names in the target Regex
are validated at creation time.\nprivate fun String.readGroupName(startIndex: Int): Int {\n    var index = startIndex\n    while (index < length) {\n        if (this[index] == ')') {\n            break\n        } else {\n            index++\n        }\n    }\n    return index\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n    // at least one
digit after '$' is always
captured\n    var index = startIndex + 1\n    var groupIndex = this[startIndex] - '0'\n    // capture the largest valid
group index\n    while (index < length && this[index] in '0'..'9') {\n        val newGroupIndex = (groupIndex * 10) +
(this[index] - '0')\n        if (newGroupIndex in 0 until groupCount) {\n            groupIndex = newGroupIndex\n
index++\n        } else {\n            break\n        }\n    }\n    return index\n}" ,"/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("EXTENSI
ON_SHADOWED_BY_MEMBER")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable
sequence of characters.\n * String builder can be used to efficiently perform multiple string manipulation
operations.\n */\nexpect

class StringBuilder : Appendable, CharSequence {\n    /** Constructs an empty string builder. */\n
constructor()\n    /** Constructs an empty string builder with the specified initial [capacity]. */\n
constructor(capacity: Int)\n    /** Constructs a string builder that contains the same characters as the specified
[content] char sequence. */\n    constructor(content: CharSequence)\n    /** Constructs a string builder that
contains the same characters as the specified [content] string. */\n    @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n    constructor(content: String)\n    override val length: Int\n    override operator fun
get(index: Int): Char\n    override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n    override
fun append(value: Char): StringBuilder\n    override fun append(value: CharSequence?): StringBuilder\n    override
fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n    /**\n     * Reverses
the contents of this string builder and returns this instance.\n     *\n     * Surrogate pairs included in this string
builder are treated as single characters.\n     * Therefore, the order of the high-low surrogates is never reversed.\n
*\n     * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and
high-surrogates before the operation.\n     * For example, reversing `"\uDC00\uD800"` produces
`\uD800\uDC00` which is a valid surrogate pair.\n     */\n    fun reverse(): StringBuilder\n    /**\n     *
Appends the string representation of the specified object [value] to this string builder and returns this instance.\n
*\n     * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n     */\n    fun append(value: Any?): StringBuilder\n
    /**\n     * Appends the string representation of the specified
boolean [value] to this string builder and returns this instance.\n     *\n     * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,\n     * and then that string was appended to this
string builder.\n     */\n    @SinceKotlin("1.3")\n    fun append(value: Boolean): StringBuilder\n    /**\n     *
Appends characters in the specified character array [value] to this string builder and returns this instance.\n     *
*\n     * Characters are appended in order, starting at the index 0.\n     */\n    @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n    fun append(value: CharArray): StringBuilder\n    /**\n     *
Appends the specified string [value] to this string builder and returns this instance.\n     *\n     * If [value] is `null`,
then the four characters `"\u0000\u0000\u0000\u0000"` are appended.\n     */\n    @SinceKotlin("1.3")\n    fun append(value: String?):
StringBuilder\n    /**\n     * Returns the current capacity

```

of this string builder.

- \* The capacity is the maximum length this string builder can have before an allocation occurs.
- \* In Kotlin/JS implementation of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.

```

@SinceKotlin("1.3")
fun capacity(): Int
/**
 * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].
 *
 * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.
 * Otherwise, this method takes no action and simply returns.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun ensureCapacity(minimumCapacity: Int)
/**
 * Returns the index within this string builder of the first occurrence of the specified [string].
 *
 * Returns -1 if the specified [string] does not occur in
this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun indexOf(string: String): Int
/**
 * Returns the index within this string builder of the first occurrence of the
specified [string],
 * starting at the specified [startIndex].
 *
 * Returns -1 if the specified [string] does
not occur in this string builder starting at the specified [startIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun indexOf(string: String, startIndex: Int): Int
/**
 * Returns the index within this string builder of the last occurrence of the specified [string].
 *
 * The last
occurrence of empty string "" is considered to be at the index equal to this.length.
 *
 * Returns -1 if
the specified [string] does not occur in this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun
lastIndexOf(string: String): Int
/**
 * Returns the index within this string builder of the last occurrence of
the specified [string],
 * starting from the specified [startIndex] toward the beginning.
 *
 * Returns -1 if
the specified [string] does not occur in this string builder starting at the specified [startIndex].
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun lastIndexOf(string: String,
startIndex: Int): Int
/**
 * Inserts the string representation of the specified boolean [value] into this string
builder at the specified [index] and returns this instance.
 *
 * The overall effect is exactly as if the [value]
were converted to a string by the `value.toString()` method,
 * and then that string was inserted into this string
builder at the specified [index].
 *
 * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string
builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun
insert(index: Int, value: Boolean): StringBuilder
/**
 * Inserts the specified character [value] into this
string builder at the specified [index] and returns this instance.
 *
 * @throws IndexOutOfBoundsException
if [index] is less than zero or greater than the length of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun insert(index: Int, value: Char): StringBuilder
/**
 * Inserts characters in the specified character array [value] into this string builder at the specified [index] and
returns this instance.
 *
 * The inserted characters go in same order as in the [value] character array, starting
at [index].
 *
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length
of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun insert(index: Int, value: CharArray): StringBuilder
/**
 * Inserts characters in the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.
 *
 * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].
 *
 * @param index the position in this string builder to insert at.
 *
 * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters
`"null"` are inserted.
 *
 * @throws IndexOutOfBoundsException if [index] is less than zero or greater than
the length of this string builder.
 */
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun insert(index: Int, value: CharSequence?):
StringBuilder
/**
 * Inserts the string representation of the specified object [value] into this
string builder at the specified [index] and returns this instance.
 *
 * The overall effect is exactly as if the
[value] were converted to a string by the `value.toString()` method,
 * and then that string was inserted into this
string builder at the specified [index].
 *
 * @throws IndexOutOfBoundsException if [index] is less than

```

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zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Any?): StringBuilder\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n * If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: String?): StringBuilder\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters "\u0000" are appended to this string builder until its length is less than the [newLength].\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun setLength(newLength: Int)\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int): String\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun substring(startIndex: Int, endIndex: Int): String\n\n /**\n * Attempts to reduce storage used for this string builder.\n * If the backing storage of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to become more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity] property.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun trimToSize()\n}\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *^n * @sample samples.text.Strings.clearStringBuilder\n *^n @SinceKotlin("1.3")\n\npublic expect fun StringBuilder.clear(): StringBuilder\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect operator fun StringBuilder.set(index: Int, value: Char)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n * @param index the index of `Char` to remove.\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n *^n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun StringBuilder.deleteAt(index: Int): StringBuilder\n\n/**\n * Removes characters in the specified range from this string builder and returns this instance.\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n * @throws

```

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`. \n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Copies characters from this  
string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param  
destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive)  
of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range  
to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or  
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when  
`startIndex > endIndex`. \n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the  
[destination] array starting at the specified [destinationOffset], \n * or when that index is out of the [destination]  
array indices range. \n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic  
expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0,  
endIndex: Int = this.length)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to  
this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified  
[startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the  
beginning (inclusive)  
of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws  
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the  
[value] array indices or when `startIndex > endIndex`. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a  
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning  
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out  
of range of the [value] character sequence indices or when `startIndex  
> endIndex`. \n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts  
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and  
returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters  
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the  
end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or  
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when  
`startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or greater  
than the length of this string builder. \n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun  
StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts  
characters in a subsequence of the specified character sequence [value] into this string builder at the specified  
[index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character  
sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the  
character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the  
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws  
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the  
[value] character sequence indices or when `startIndex > endIndex`. \n
```

```
* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string  
builder. \n *\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
```



```

StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuilder\n\n@Suppress(\\"EXTENSION_SHADOWED_BY_MEMBER\\")\n@Deprecated(\\"Use
append(value: Any?) instead\\", ReplaceWith(\\"append(value = obj)\\"),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n */\n@kotlin.internal.InlineOnly\npublic inline fun
buildString(builderAction: StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n    return StringBuilder().apply(builderAction).toString()\n}\n\n/**\n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using
provided [builderAction] and then converting it to [String].\n */\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction:
StringBuilder.() -> Unit): String {\n    contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}\n    return StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the
given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n    for (item in
value)\n        append(item)\n    return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder {\n    for (item in value)\n
append(item)\n    return this\n}\n\n// KT-52336\n@Deprecated(\\"Use appendRange instead.\\",
ReplaceWith(\\"this.appendRange(str, offset, offset
+ len)\\"), level =
DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\n@Suppress(\\"UNUSED_PARAMETER\\")\npublic inline
fun StringBuilder.append(str: CharArray, offset: Int, len: Int): StringBuilder = throw NotImplementedError()\n\n/**
Appends a line feed character (`\\n`) to this StringBuilder.
 */\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine():
StringBuilder = append("\\n")\n\n/** Appends [value] to this [StringBuilder], followed by a line feed character
(`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharSequence?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder],
followed by a line feed character (`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: String?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to
this [StringBuilder], followed by a line
feed character (`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Any?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this
[StringBuilder], followed by a line feed character (`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharArray): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this
[StringBuilder], followed
by a line feed character (`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this
[StringBuilder], followed by a line feed character (`\\n`).
 */\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Boolean): StringBuilder = append(value).appendLine()\n\n"/>\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.text\nimport
kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char,
fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual
inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(),
fromIndex)\n\n/**\n * Returns `true` if this string starts with the specified prefix.\n */\n@kotlin.internal.InlineOnly\npublic actual fun
String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return

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nativeStartsWith(prefix, 0)\n else\n     return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/>\n * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n\n/>\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeStartsWith(prefix, startIndex)\n    else\n        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/>\n * Returns `true` if this string ends with the specified suffix.\n\n/>\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeEndsWith(suffix)\n    else\n        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n@Deprecated("Use Regex.matches() instead", ReplaceWith("regex.toRegex().matches(this)"))\n@DeprecatedSinceKotlin(warningSince = "1.6")\npublic fun String.matches(regex: String): Boolean {\n    @Suppress("DEPRECATION")\n    val result = this.match(regex)\n    return result != null && result.size != 0\n}\n\n/>\n * Returns `true` if this string is empty or consists solely of whitespace characters.\n\n/>\n * @sample samples.text.Strings.stringIsBlank\n\n/>\n public actual fun CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }\n\n/>\n * Returns `true` if this string is equal to [other], optionally ignoring character case.\n\n/>\n * Two strings are considered to be equal if they have the same length and the same character at the same index.\n\n/>\n * If [ignoreCase] is true, the result of `Char.toUpperCaseChar().toLowerCaseChar()` on each character is compared.\n\n/>\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n\n/>\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {\n    if (this == null) return other == null\n    if (other == null) return false\n    if (!ignoreCase)\n        return this == other\n    if (this.length != other.length) return false\n    for (index in 0 until this.length) {\n        val thisChar = this[index]\n        val otherChar = other[index]\n        if (!thisChar.equals(otherChar, ignoreCase)) {\n            return false\n        }\n    }\n    return true\n}\n\n/>\n * Returns `true` if the specified range in this char sequence is equal to the specified range in another char sequence.\n\n/>\n * @param thisOffset the start offset in this char sequence of the substring to compare.\n\n/>\n * @param other the string against a substring of which the comparison is performed.\n\n/>\n * @param otherOffset the start offset in the other char sequence of the substring to compare.\n\n/>\n * @param length the length of the substring to compare.\n\n/>\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun CharSequence.regionMatches(\n    thisOffset: Int,\n    other: CharSequence,\n    otherOffset: Int,\n    length: Int,\n    ignoreCase: Boolean = false\n): Boolean = regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n/>\n * Returns `true` if the specified range in this string is equal to the specified range in another string.\n\n/>\n * @param thisOffset the start offset in this string of the substring to compare.\n\n/>\n * @param other the string against a substring of which the comparison is performed.\n\n/>\n * @param otherOffset the start offset in the other string of the substring to compare.\n\n/>\n * @param length the length of the substring to compare.\n\n/>\n @SinceKotlin("1.9")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.regionMatches(\n    thisOffset: Int,\n    other: String,\n    otherOffset: Int,\n    length: Int,\n    ignoreCase: Boolean = false\n): Boolean = regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n/>\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n\n/>\n * or the original string if it's empty or already starts with a title case letter.\n\n/>\n * The title case of a character is usually the same as its upper case with several exceptions.\n\n/>\n * The particular list of characters with the special title case form depends on the underlying platform.\n\n/>\n * @sample samples.text.Strings.capitalize\n\n/>\n @Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic actual fun String.capitalize(): String {\n    return if

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(isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having
its first letter lowercased using the rules of the default locale.\n * or the original string if it's empty or already starts
with a lower case letter.\n *\n * @sample samples.text.Strings.decapiatalize\n */\n@Deprecated("Use
replaceFirstChar instead.", ReplaceWith("replaceFirstChar { it.lowercase()
}"))\n@DeprecatedSinceKotlin(warningSince
= "1.5")\npublic actual fun String.decapiatalize(): String {\n    return if (isNotEmpty()) substring(0, 1).lowercase()
+ substring(1) else this\n}\n\n/**\n * Returns a string containing this char sequence repeated [n] times.\n * @throws
[IllegalArgumentException] when n < 0.\n * @sample samples.text.Strings.repeat\n */\npublic actual fun
CharSequence.repeat(n: Int): String {\n    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }\n
return when (n) {\n    0 -> ""\n    1 -> this.toString()\n    else -> {\n        var result = ""\n        if
(!isEmpty()) {\n            var s = this.toString()\n            var count = n\n            while (true) {\n                if
((count and 1) == 1) {\n                    result += s\n                }\n                count = count ushr 1\n                if
(count == 0) {\n                    break\n                }\n                s += s\n            }\n            return result\n        }\n    }\n}\n\n/**\n * Returns a new string
obtained by replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue]
string.\n *\n * @sample samples.text.Strings.replace\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gui" else "gu"),
    Regex.nativeEscapeReplacement(newValue))\n}\n\n/**\n * Returns a new string with all occurrences of [oldChar]
replaced with [newChar].\n *\n * @sample samples.text.Strings.replace\n */\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "gui" else "gu"),
    newChar.toString())\n}\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "ui" else "u"),
    Regex.nativeEscapeReplacement(newValue))\n}\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false):
String =\n    nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) "ui" else "u"),
    newChar.toString())\n}\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns the negative [size] if [throwOnMalformed] is
false, throws [CharacterCodingException] otherwise. *\nprivate fun malformed(size: Int, index: Int,
throwOnMalformed:
Boolean): Int {\n    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at
${index - 1}")\n    return -size\n}\n\n/**\n * Returns code point corresponding to UTF-16 surrogate pair,\n * where
the first of the pair is the [high] and the second is in the [string] at the [index].\n * Returns zero if the pair is
malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the pair is malformed
and [throwOnMalformed] is true.\n */\nprivate fun codePointFromSurrogate(string: String, high: Int, index: Int,
endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (high !in 0xD800..0xDBFF || index >= endIndex) {\n
return malformed(0, index, throwOnMalformed)\n    }\n    val low = string[index].code\n    if (low !in
0xDC00..0xDFFF) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return 0x10000 + ((high and
0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence
of two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the
[index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws
CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:

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Boolean): Int {\n  if (byte1 and 0x1E == 0 || index >= endIndex) {\n    return malformed(0, index,
throwOnMalformed)\n  }\n  val byte2 = bytes[index].toInt()\n  if (byte2 and 0xC0 != 0x80) {\n    return
malformed(0, index, throwOnMalformed)\n  }\n  return (byte1 shl 6) xor byte2 xor 0xF80}\n\n/**\n * Returns
code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1]
and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number
of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed]
is false.\n * @throws CharacterCodingException if the sequence of three bytes is malformed and
[throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex:
Int, throwOnMalformed: Boolean): Int {\n  if (index >= endIndex) {\n    return malformed(0, index,
throwOnMalformed)\n  }\n  val byte2 = bytes[index].toInt()\n  if (byte1 and 0xF == 0) {\n    if (byte2 and
0xE0 != 0xA0) {\n      // Non-shortest form\n      return malformed(0, index, throwOnMalformed)\n    }\n  }
else if (byte1 and 0xF == 0xD) {\n    if (byte2 and 0xE0 != 0x80) {\n      // Surrogate code point\n
return malformed(0, index, throwOnMalformed)\n    }\n  } else if (byte2 and 0xC0 != 0x80) {\n    return
malformed(0, index, throwOnMalformed)\n  }\n  if (index + 1 == endIndex) {\n    return
malformed(1, index, throwOnMalformed)\n  }\n  val byte3 = bytes[index + 1].toInt()\n  if (byte3 and 0xC0 !=
0x80) {\n    return malformed(1, index, throwOnMalformed)\n  }\n  return (byte1 shl 12) xor (byte2 shl 6) xor
byte3 xor -0x1E080}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n * where the
first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a
non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n  if (index >= endIndex) {\n    malformed(0,
index, throwOnMalformed)\n  }\n  val byte2 = bytes[index].toInt()\n  if (byte1 and 0xF == 0x0) {\n    if (byte2 and 0xF0 <= 0x80) {\n      // Non-shortest form\n      return
malformed(0, index, throwOnMalformed)\n    }\n  } else if (byte1 and 0xF == 0x4) {\n    if (byte2 and 0xF0
!= 0x80) {\n      // Out of Unicode code points domain (larger than U+10FFFF)\n      return malformed(0,
index, throwOnMalformed)\n    }\n  } else if (byte1 and 0xF > 0x4) {\n    return malformed(0, index,
throwOnMalformed)\n  } else if (byte2 and 0xC0 != 0x80) {\n    return malformed(0, index,
throwOnMalformed)\n  }\n  if (index + 1 == endIndex) {\n    return malformed(1, index,
throwOnMalformed)\n  }\n  val byte3 = bytes[index + 1].toInt()\n  if (byte3 and 0xC0 != 0x80) {\n    return
malformed(1, index, throwOnMalformed)\n  }\n  if (index + 2 == endIndex) {\n    return malformed(2, index,
throwOnMalformed)\n  }\n  val byte4 = bytes[index + 2].toInt()\n  if (byte4 and 0xC0 != 0x80) {\n
return malformed(2, index, throwOnMalformed)\n  }\n  return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl
6) xor byte4 xor 0x381F80}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n * Code
points in `0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n *
Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n
*\n * @param string the string to
encode.\n * @param startIndex the start offset (inclusive) of the substring to encode.\n * @param endIndex the end
offset (exclusive) of the substring to encode.\n * @param throwOnMalformed whether to throw on malformed char
sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\n * @throws CharacterCodingException
if the char sequence is malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n  require(startIndex >= 0 && endIndex
<= string.length && startIndex <= endIndex)\n  val bytes = ByteArray((endIndex - startIndex) *

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MAX_BYTES_PER_CHAR)\n  var byteIndex = 0\n  var charIndex = startIndex\n\n  while (charIndex <
endIndex) {\n    val code = string[charIndex++].code\n    when {\n      code < 0x80 ->\nbytes[byteIndex++] = code.toByte()\n      code < 0x800 -> {\n        bytes[byteIndex++] = ((code shr 6) or
0xC0).toByte()\n        bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n      }\n      code < 0xD800 || code >=
0xE000 -> {\n        bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n        bytes[byteIndex++] =
(((code shr 6) and 0x3F) or 0x80).toByte()\n        bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n      }\n      else -> { // Surrogate char value\n        val codePoint = codePointFromSurrogate(string, code,
charIndex, endIndex, throwOnMalformed)\n        if (codePoint <= 0) {\n          bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n          bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n          bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n        } else {\n          bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n          bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n          bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n          bytes[byteIndex++] =
(((codePoint and 0x3F) or 0x80).toByte()\n          charIndex++\n        }\n      }\n    }\n  }\n  return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n *\nprivate const val REPLACEMENT_CHAR = "\uFFFF"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n
* @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n *\ninternal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n  require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n  var byteIndex = startIndex\n  val stringBuilder = StringBuilder()\n\n  while (byteIndex < endIndex) {\n    val byte = bytes[byteIndex++].toInt()\n    when {\n      byte >= 0 ->\n      stringBuilder.append(byte.toChar())\n      byte shr 5 == -2 -> {\n        val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n        if (code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n        byteIndex += -code\n        } else {\n
stringBuilder.append(code.toChar())\n        byteIndex += 1\n        }\n      }\n      byte shr 4 == -2 -
> {\n        val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n        if
(code <= 0) {\n        stringBuilder.append(REPLACEMENT_CHAR)\n        byteIndex += -code\n        } else {\n
stringBuilder.append(code.toChar())\n        byteIndex += 2\n        }\n      }\n      byte shr
3 == -2 -> {\n        val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n
        if (code <= 0) {\n          stringBuilder.append(REPLACEMENT_CHAR)\n          byteIndex += -code\n
        } else {\n          val high = (code - 0x10000) shr 10 or 0xD800\n          val low = (code and
0x3FF) or 0xDC00\n          stringBuilder.append(high.toChar())\n          stringBuilder.append(low.toChar())\n
          byteIndex += 3\n        }\n      }\n      else -> {\n        malformed(0, byteIndex, throwOnMalformed)\n
stringBuilder.append(REPLACEMENT_CHAR)\n      }\n    }\n  }\n\n  return stringBuilder.toString()\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\npackage kotlin\n\n/**\n * Returns the detailed description of this
throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see
[Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions
that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of
each throwable in the [Throwable.cause] chain.\n *\n@SinceKotlin("1.4")\npublic actual fun

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Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to console error output.\n
*\n@SinceKotlin("1.4")\npublic
actual fun Throwable.printStackTrace() {\n    console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n
*\n@SinceKotlin("1.4")\npublic actual fun Throwable.addSuppressed(exception: Throwable) {\n    if (this != exception) {\n        val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\n        if (suppressed == null) {\n            this.asDynamic()._suppressed = mutableListOf(exception)\n        } else {\n            suppressed.add(exception)\n        }\n    }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n
*\n@SinceKotlin("1.4")\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n    get() {\n        return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n    }\n\nprivate class ExceptionTraceBuilder {\n    private val target = StringBuilder()\n    private val visited = arrayOf<Throwable>()\n    private var topStack: String = ""\n    private var topStackStart: Int = 0\n    fun buildFor(exception: Throwable): String {\n        exception.dumpFullTrace("", "")\n        return target.toString()\n    }\n    private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n    private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\n        this.dumpSelfTrace(indent, qualifier) || return\n        var cause = this.cause\n        while (cause != null) {\n            cause.dumpSelfTrace(indent, "Caused by: ") || return\n            cause = cause.cause\n        }\n    }\n    private fun Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n        target.append(indent).append(qualifier)\n        val shortInfo = this.toString()\n        if (hasSeen(this)) {\n            target.append("[CIRCULAR REFERENCE, SEE ABOVE: ").append(shortInfo).append("\\n\\n")\n            return false\n        }\n        visited.asDynamic().push(this)\n        var stack = this.asDynamic().stack as String?\n        if (stack != null) {\n            val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n            if (stackStart == 0) target.append(shortInfo).append("\\n\\n")\n            if (topStack.isEmpty()) {\n                topStack = stack\n                topStackStart = stackStart\n            } else {\n                stack = dropCommonFrames(stack, stackStart)\n            }\n            if (indent.isNotEmpty()) {\n                // indent stack, but avoid indenting exception message lines\n                val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\\n' }\n                stack.lineSequence().forEachIndexed { index: Int, line: String -> }\n                if (index >= messageLines) target.append(indent)\n                target.append(line).append("\\n\\n")\n            }\n        } else {\n            target.append(stack).append("\\n\\n")\n        }\n    } else {\n        target.append(shortInfo).append("\\n\\n")\n    }\n    val suppressed = suppressedExceptions\n    if (suppressed.isNotEmpty()) {\n        val suppressedIndent = indent + "  "\n        for (s in suppressed) {\n            s.dumpFullTrace(suppressedIndent, "Suppressed: ")\n        }\n    }\n    return true\n}\n\nprivate fun dropCommonFrames(stack: String, stackStart: Int): String {\n    var commonFrames: Int = 0\n    var lastBreak: Int = 0\n    var preLastBreak: Int = 0\n    for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n        val c = stack[stack.lastIndex - pos]\n        if (c != topStack[topStack.lastIndex - pos])\n            break\n        if (c == '\\n') {\n            commonFrames += 1\n            preLastBreak = lastBreak\n            lastBreak = pos\n        }\n    }\n    if (commonFrames <= 1) return stack\n    while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == ' ')\n        preLastBreak -= 1\n    // leave 1 common frame to ease matching with the top exception\n    stack\n    return stack.dropLast(preLastBreak) + "... and\n    ${commonFrames - 1} more common stack frames skipped"\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@package kotlin.time\n@nimport kotlin.js.json\n@nimport kotlin.math.*\n\ninternal actual inline val durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow = 10.0.pow(decimals)\n        JsMath.round(abs(value) * pow) / pow * sign(value)\n    }\n    return if (abs(rounded) < 1e21) {\n        // toFixed switches to scientific format after 1e21\n        rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n    } else {\n        // toPrecision

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outputs the specified number of digits, but only for positive numbers\n    val positive = abs(rounded)\n    val
positiveString = positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n    if
(rounded < 0) \ "$positiveString" else positiveString\n    }\n}\n\ninternal actual fun formatUpToDecimals(value:
Double, decimals: Int): String {\n    return value.asDynamic().toLocaleString("en-us",
json("maximumFractionDigits" to decimals).unsafeCast<String>())\n}\n\n"/\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic
actual enum class DurationUnit(internal val scale: Double) {\n    /**\n     * Time unit representing one nanosecond,
which is 1/1000 of a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one
microsecond, which is 1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit
representing one millisecond, which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time
unit representing one second.\n     */\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n
    MINUTES(60e9),\n    /**\n     * Time unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n     * Time
unit representing one day, which is always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\ninternal actual fun convertDurationUnit(value: Double, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Double {\n
    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n    sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n    else -> value\n    }\n}\n\n@SinceKotlin("1.5")\ninternal actual fun
convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n
sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n    sourceCompareTarget < 0
-> value / (targetUnit.scale / sourceUnit.scale).toLong()\n    else -> value\n    }\n}\n\n@SinceKotlin("1.5")\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit,
targetUnit: DurationUnit): Long {\n    val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n
return when {\n    sourceCompareTarget
> 0 -> {\n        val scale = (sourceUnit.scale / targetUnit.scale).toLong()\n        val result = value * scale\n
when {\n            result / scale == value -> result\n            value > 0 -> Long.MAX_VALUE\n            else ->
Long.MIN_VALUE\n        }\n    }\n    sourceCompareTarget < 0 -> value / (targetUnit.scale /
sourceUnit.scale).toLong()\n    else -> value\n    }\n}\n\n"/\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.math.truncate\nimport
kotlin.time.Duration.Companion.milliseconds\nimport
kotlin.time.TimeSource.Monotonic.ValueTimeMark\n\n@Suppress("ACTUAL_WITHOUT_EXPECT") //
visibility\ninternal actual typealias ValueTimeMarkReading = Any\n\ninternal interface DefaultTimeSource :
TimeSource.WithComparableMarks
{\n    override fun markNow(): ValueTimeMark\n    fun elapsedFrom(timeMark: ValueTimeMark): Duration\n
fun differenceBetween(one: ValueTimeMark, another: ValueTimeMark): Duration\n    fun
adjustReading(timeMark: ValueTimeMark, duration: Duration):
ValueTimeMark\n}\n\n@SinceKotlin("1.3")\ninternal actual object MonotonicTimeSource : DefaultTimeSource,
TimeSource.WithComparableMarks { // TODO: interface should not be required here\n    private val
actualSource: DefaultTimeSource = run {\n        val isNode: Boolean = js("typeof process !== 'undefined' &&
process.versions && !!process.versions.node")\n        if (isNode)\n            HrTimeSource(js("process").unsafeCast<Process>())\n        else\n            js("typeof self !== 'undefined' ? self :
globalThis").unsafeCast<GlobalPerformance?>()?.performance\n        ?.let(::PerformanceTimeSource)\n        ?: DateNowTimeSource\n    }\n    actual override fun markNow():
ValueTimeMark

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= actualSource.markNow()\n  actual override fun elapsedFrom(timeMark: ValueTimeMark): Duration =
actualSource.elapsedFrom(timeMark)\n  actual override fun differenceBetween(one: ValueTimeMark, another:
ValueTimeMark): Duration = actualSource.differenceBetween(one, another)\n\n  actual override fun
adjustReading(timeMark: ValueTimeMark, duration: Duration): ValueTimeMark =\n
actualSource.adjustReading(timeMark, duration)\n}\n\ninternal external interface Process {\n  fun hrtime(time:
Array<Double> = definedExternally): Array<Double>}\n}\n\n@SinceKotlin("1.3")\n\ninternal class
HrTimeSource(private val process: Process) : DefaultTimeSource {\n  @Suppress("NOTHING_TO_INLINE")\n  private class Reading(val components: Array<Double>) {\n    inline operator fun component1(): Double =
components.component1()\n    inline operator fun component2(): Double = components.component2()\n
override fun equals(other: Any?): Boolean = other is Reading && this.components
contentEquals other.components\n    override fun hashCode(): Int = components.contentHashCode()\n
override fun toString(): String = components.contentToString()\n  }\n\n  override fun markNow():
ValueTimeMark =\n    ValueTimeMark(Reading(process.hrtime()))\n\n  override fun elapsedFrom(timeMark:
ValueTimeMark): Duration =\n    process.hrtime((timeMark.reading as Reading).components)\n    .let {
(seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) +
nanos.toDuration(DurationUnit.NANOSECONDS) }\n\n  override fun differenceBetween(one: ValueTimeMark,
another: ValueTimeMark): Duration {\n    val (s1, n1) = one.reading as Reading\n    val (s2, n2) =
another.reading as Reading\n    return (if (s1 == s2 && n1 == n2) Duration.ZERO else (s1 -
s2).toDuration(DurationUnit.SECONDS)) + (n1 - n2).toDuration(DurationUnit.NANOSECONDS)\n  }\n\n
override fun adjustReading(timeMark: ValueTimeMark, duration: Duration): ValueTimeMark
=\n  (timeMark.reading as Reading).let { (seconds, nanos) ->\n    duration.toComponents { _, addNanos -
>\n      val resultSeconds = sumCheckNaN(seconds +
truncate(duration.toDouble(DurationUnit.SECONDS)))\n      Reading(arrayOf(resultSeconds, if
(resultSeconds.isFinite()) nanos + addNanos else 0.0))\n    }\n  }.let(TimeSource.Monotonic::ValueTimeMark)\n}\n\n  override fun toString(): String =
"TimeSource(process.hrtime())"\n}\n\n@SinceKotlin("1.3")\n\ninternal class PerformanceTimeSource(private val
performance: Performance) : DefaultTimeSource { // AbstractDoubleTimeSource(unit =
DurationUnit.MILLISECONDS) {\n  private fun read(): Double = performance.now()\n\n  override fun
markNow(): ValueTimeMark = ValueTimeMark(read())\n\n  override fun elapsedFrom(timeMark:
ValueTimeMark): Duration = (read() - timeMark.reading as Double).milliseconds\n\n  override fun
differenceBetween(one: ValueTimeMark, another: ValueTimeMark): Duration
{\n    val ms1 = one.reading as Double\n    val ms2 = another.reading as Double\n    return if (ms1 == ms2)
Duration.ZERO else (ms1 - ms2).milliseconds\n  }\n\n  override fun adjustReading(timeMark: ValueTimeMark,
duration: Duration): ValueTimeMark =\n    ValueTimeMark(sumCheckNaN(timeMark.reading as Double +
duration.toDouble(DurationUnit.MILLISECONDS)))\n\n  override fun toString(): String =
"TimeSource(self.performance.now())"\n}\n\n@SinceKotlin("1.3")\n\ninternal object DateNowTimeSource :
DefaultTimeSource {\n  private fun read(): Double = kotlin.js.Date.now()\n\n  override fun markNow():
ValueTimeMark = ValueTimeMark(read())\n\n  override fun elapsedFrom(timeMark: ValueTimeMark): Duration =
(read() - timeMark.reading as Double).milliseconds\n\n  override fun differenceBetween(one: ValueTimeMark,
another: ValueTimeMark): Duration {\n    val ms1 = one.reading as Double\n    val ms2 = another.reading as
Double\n    return if (ms1 == ms2)
Duration.ZERO else (ms1 - ms2).milliseconds\n  }\n\n  override fun adjustReading(timeMark: ValueTimeMark,
duration: Duration): ValueTimeMark =\n    ValueTimeMark(sumCheckNaN(timeMark.reading as Double +
duration.toDouble(DurationUnit.MILLISECONDS)))\n\n  override fun toString(): String =
"TimeSource(Date.now())"\n}\n\ninternal external interface GlobalPerformance {\n  val performance:
Performance}\n\ninternal external interface Performance {\n  fun now(): Double}\n\nprivate fun
sumCheckNaN(value: Double): Double = value.also { if (it.isNaN()) throw IllegalArgumentException("Summing
infinities of different signs") }", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\nimport
kotlin.contracts.*\n\n/**\n * Creates a new element with the specified [name].\n */\n
 * The element is initialized with the specified [init] function.\n */\n\n@SinceKotlin("1.4")\n\npublic fun
Document.createElement(name: String, init: Element.() -> Unit): Element {\n    contract { callsInPlace(init,
InvocationKind.EXACTLY_ONCE) }\n    return createElement(name).apply(init)\n}\n\n/**\n * Appends a newly
created element with the specified [name] to this element.\n */\n * The element is initialized with the specified [init]
function.\n */\n\n@SinceKotlin("1.4")\n\npublic fun Element.appendChild(name: String, init: Element.() -> Unit):
Element {\n    contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n    return
ownerDocument!!.createElement(name, init).also { appendChild(it) }\n}\n\n"/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Returns true if the
element has the given CSS class style in its 'class' attribute\n */\n\n@SinceKotlin("1.4")\n\nfun
Element.hasClass(cssClass: String): Boolean =
className.matches("\\\\\\"(\\^\\.\\*\\|s+)$cssClass(\\|s+\\.\\*\\|\\\\".toRegex()))\n\n/**\n * Adds CSS class to element. Has no
effect if all specified classes are already in class attribute of the element\n */\n * @return true if at least one class has
been added\n */\n\n@SinceKotlin("1.4")\n\nfun Element.addClass(vararg cssClasses: String): Boolean {\n    val
missingClasses = cssClasses.filterNot { hasClass(it) }\n    if (missingClasses.isNotEmpty()) {\n        val
presentClasses = className.trim()\n        className = buildString {\n            append(presentClasses)\n            if
(!presentClasses.isEmpty()) {\n                append(" ")\n            }\n            missingClasses.joinTo(this, " ")
}\n        return true\n    }\n    return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all
specified classes are
missing in class attribute of the element\n */\n * @return true if at least one class has been removed\n
*/\n\n@SinceKotlin("1.4")\n\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n    if (cssClasses.any {
hasClass(it) }) {\n        val toBeRemoved = cssClasses.toSet()\n        className =
className.trim().split("\\\\|s+\\.\\*\\|\\\\".toRegex()).filter { it !in toBeRemoved }.joinToString("\\|")\n        return true\n
}\n    return false\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n
*/\n\n@kotlin.internal.InlineOnly\n\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression
[Regex] with the specified single [option].\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular
expression [Regex] with the specified set of [options].\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n\n/**\n * Returns a named group with
the specified [name].\n */\n * @return An instance of [MatchGroup] if the group with the specified [name] was
matched or `null` otherwise.\n * @throws IllegalArgumentException if there is no group with the specified [name]
defined in the regex pattern.\n * @throws UnsupportedOperationException if this match group collection doesn't
support getting match groups by name,\n * for example, when it's not supported by the current platform.\n
*/\n\n@SinceKotlin("1.9")\n\npublic expect operator fun MatchGroupCollection.get(name: String):
MatchGroup?"/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n\n@SinceKotlin("1.4")\n\npublic val Node.isText: Boolean\n    get() = nodeType

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== Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating
whether this node is an [Element].\n *\n * @SinceKotlin("1.4")\n\npublic val Node.isElement: Boolean\n\n    get() =
nodeType == Node.ELEMENT_NODE\n\n",/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n *\n\npackage kotlin.xml\n\nimport org.w3c.dom.*\n\n/** Removes all the children
from this node. *\n * @SinceKotlin("1.4")\n\npublic fun Node.clear()
{\n    while (hasChildNodes()) {\n        removeChild(firstChild!)\n    }\n}\n\n/**\n * Creates text node and append
it to the element.\n *\n * @return this element\n *\n * @SinceKotlin("1.4")\n\nfun Element.appendText(text: String):
Element {\n    appendChild(ownerDocument!!.createTextNode(text))\n    return this\n}\n\n",/>\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\n\npackage
org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener =
EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) :
EventListener {\n    public override fun handleEvent(event: Event) {\n        handler(event)\n    }\n\n    public
override fun toString(): String = \"EventListenerHandler($handler)\"\n}\n\n",/>\n * Copyright 2010-2022 JetBrains
s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n *\n\npackage org.w3c.dom\n\n@Deprecated(\"Use
UnionMessagePortOrWindowProxy instead.\", ReplaceWith(\"UnionMessagePortOrWindowProxy\"))\n\ninterface
UnionMessagePortOrWindowProxy\n\n@Deprecated(\"Use `as` instead.\",
ReplaceWith(\"`as`\"))\n\nvar HTMLLinkElement.as_: UnionMessagePortOrWindowProxy\n\n    get() = `as`\n\n    set(value) {\n        `as` = value\n
    }\n\n@Deprecated(\"Use `is` instead.\", ReplaceWith(\"`is`\"))\n\nvar ElementCreationOptions.is_: UnionMessagePortOrWindowProxy\n\n    get() = `is`\n\n    set(value) {\n        `is` = value\n
    }\n\n",/>\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport
kotlin.js.*\n\nimport org.w3c.dom.*\n\nimport org.w3c.dom.events.*\n\npublic external interface
WebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n\n        get() = definedExternally\n\n        set(value) =
definedExternally\n\n    var depth: Boolean? /* = true */\n\n        get() = definedExternally\n\n        set(value) =
definedExternally\n\n    var stencil: Boolean? /* = false */\n\n        get() = definedExternally\n\n        set(value) =
definedExternally\n\n    var antialias: Boolean? /* = true */\n\n        get() = definedExternally\n\n        set(value) =
definedExternally\n\n    var premultipliedAlpha: Boolean? /* = true */\n\n        get() = definedExternally\n\n        set(value) = definedExternally\n\n    var preserveDrawingBuffer: Boolean? /* = false */\n\n        get() =
definedExternally\n\n        set(value) = definedExternally\n\n    var preferLowPowerToHighPerformance: Boolean? /* =
false */\n\n        get() = definedExternally\n\n        set(value) = definedExternally\n\n    var
failIfMajorPerformanceCaveat: Boolean? /* = false */\n\n        get() = definedExternally\n\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js(\"({})\")\n\n    o[\"alpha\"] = alpha\n    o[\"depth\"] = depth\n    o[\"stencil\"] = stencil\n    o[\"antialias\"] = antialias\n    o[\"premultipliedAlpha\"] = premultipliedAlpha\n    o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\n    o[\"preferLowPowerToHighPerformance\"] = preferLowPowerToHighPerformance\n    o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external
abstract class WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n *\n *\n\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript

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[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n \*\npublic external abstract class WebGLFramebuffer : WebGLObject\n\n\*\*\n \* Exposes the JavaScript

[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n \*\npublic external abstract class WebGLProgram : WebGLObject\n\n\*\*\n \* Exposes the JavaScript

[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n \*\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n\*\*\n \* Exposes the JavaScript

[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n \*\npublic external abstract class WebGLShader : WebGLObject\n\n\*\*\n \* Exposes the JavaScript

[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n \*\npublic external abstract class WebGLTexture : WebGLObject\n\n\*\*\n \* Exposes the JavaScript

[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n \*\npublic external abstract class WebGLUniformLocation\n\n\*\*\n \* Exposes the JavaScript

[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n \*\npublic external abstract class WebGLActiveInfo {\n open val size: Int\n open val type: Int\n open val name: String\n}\n\n\*\*\n \* Exposes the JavaScript

[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\n \*\npublic external abstract class WebGLShaderPrecisionFormat {\n open val rangeMin: Int\n open val rangeMax: Int\n open val precision: Int\n}\n\n\n@Suppress(\"NESTED\_CLASS\_IN\_EXTERNAL\_INTERFACE\")\npublic external interface WebGLRenderingContextBase {\n val canvas: HTMLCanvasElement\n val drawingBufferWidth: Int\n val drawingBufferHeight: Int\n fun getContextAttributes(): WebGLContextAttributes?\n fun isContextLost(): Boolean\n fun getSupportedExtensions(): Array<String>?\n fun getExtension(name: String): dynamic\n fun activeTexture(texture: Int)\n fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n fun bindBuffer(target: Int, buffer: WebGLBuffer?)\n fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n fun bindTexture(target: Int, texture: WebGLTexture?)\n fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun blendEquation(mode: Int)\n fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n fun blendFunc(sfactor: Int, dfactor: Int)\n fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)\n fun bufferData(target: Int, size: Int, usage: Int)\n fun bufferData(target: Int, data: BufferDataSource?, usage: Int)\n fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n fun checkFramebufferStatus(target: Int): Int\n fun clear(mask: Int)\n fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count:

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Int)\n fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun
enableVertexArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun
generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n
fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun
getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program:
WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun
getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int,
attachment: Int, pname: Int): Any?\n
fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program:
WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun
getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shaderType: Int,
precisionType: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n
fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n
fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\n fun
getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun
getVertexAttrib(index: Int, pname: Int): Any?\n fun getVertexAttribOffset(index: Int, pname: Int): Int\n fun
hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n
fun isFramebuffer(framebuffer: WebGLFramebuffer?):
Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun isRenderbuffer(renderbuffer:
WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n fun isTexture(texture:
WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program: WebGLProgram?)\n
fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y:
Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int,
internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x:
Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun
stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun
stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail:
Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location:
WebGLUniformLocation?, x: Int)\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location:
WebGLUniformLocation?, x: Float, y: Float)\n fun uniform2fv(location: WebGLUniformLocation?, v:
Float32Array)\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun
uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)\n
fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v:
Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun
uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:

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WebGLUniformLocation?,

v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix4fv(location:

WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n companion object {\n val DEPTH\_BUFFER\_BIT: Int\n val STENCIL\_BUFFER\_BIT: Int\n val COLOR\_BUFFER\_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE\_LOOP: Int\n val LINE\_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE\_STRIP: Int\n val TRIANGLE\_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC\_COLOR: Int\n val ONE\_MINUS\_SRC\_COLOR: Int\n val SRC\_ALPHA: Int\n val ONE\_MINUS\_SRC\_ALPHA: Int\n val DST\_ALPHA: Int\n val ONE\_MINUS\_DST\_ALPHA: Int\n val DST\_COLOR: Int\n val ONE\_MINUS\_DST\_COLOR: Int\n val SRC\_ALPHA\_SATURATE: Int\n val FUNC\_ADD: Int\n val BLEND\_EQUATION: Int\n val BLEND\_EQUATION\_RGB: Int\n val BLEND\_EQUATION\_ALPHA: Int\n val FUNC\_SUBTRACT: Int\n val FUNC\_REVERSE\_SUBTRACT: Int\n val BLEND\_DST\_RGB: Int\n val BLEND\_SRC\_RGB: Int\n val BLEND\_DST\_ALPHA: Int\n val BLEND\_SRC\_ALPHA: Int\n val CONSTANT\_COLOR: Int\n val ONE\_MINUS\_CONSTANT\_COLOR: Int\n val CONSTANT\_ALPHA: Int\n val ONE\_MINUS\_CONSTANT\_ALPHA: Int\n val BLEND\_COLOR: Int\n

val ARRAY\_BUFFER: Int\n val ELEMENT\_ARRAY\_BUFFER: Int\n val ARRAY\_BUFFER\_BINDING: Int\n val ELEMENT\_ARRAY\_BUFFER\_BINDING: Int\n val STREAM\_DRAW: Int\n val STATIC\_DRAW: Int\n val DYNAMIC\_DRAW: Int\n val BUFFER\_SIZE: Int\n val BUFFER\_USAGE: Int\n val CURRENT\_VERTEX\_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT\_AND\_BACK: Int\n val CULL\_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL\_TEST: Int\n val DEPTH\_TEST: Int\n val SCISSOR\_TEST: Int\n val POLYGON\_OFFSET\_FILL: Int\n val SAMPLE\_ALPHA\_TO\_COVERAGE: Int\n val SAMPLE\_COVERAGE: Int\n val NO\_ERROR: Int\n val INVALID\_ENUM: Int\n val INVALID\_VALUE: Int\n val INVALID\_OPERATION: Int\n val OUT\_OF\_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE\_WIDTH: Int\n val ALIASED\_POINT\_SIZE\_RANGE: Int\n val ALIASED\_LINE\_WIDTH\_RANGE:

Int\n val CULL\_FACE\_MODE: Int\n val FRONT\_FACE: Int\n val DEPTH\_RANGE: Int\n val DEPTH\_WRITEMASK: Int\n val DEPTH\_CLEAR\_VALUE: Int\n val DEPTH\_FUNC: Int\n val STENCIL\_CLEAR\_VALUE: Int\n val STENCIL\_FUNC: Int\n val STENCIL\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_FAIL: Int\n val STENCIL\_PASS\_DEPTH\_PASS: Int\n val STENCIL\_REF: Int\n val STENCIL\_VALUE\_MASK: Int\n val STENCIL\_WRITEMASK: Int\n val STENCIL\_BACK\_FUNC: Int\n val STENCIL\_BACK\_FAIL: Int\n val

STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n     val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n     val  
 STENCIL\_BACK\_REF: Int\n     val STENCIL\_BACK\_VALUE\_MASK: Int\n     val  
 STENCIL\_BACK\_WRITEMASK: Int\n     val VIEWPORT: Int\n     val SCISSOR\_BOX: Int\n     val  
 COLOR\_CLEAR\_VALUE: Int\n     val COLOR\_WRITEMASK: Int\n     val UNPACK\_ALIGNMENT: Int\n  
    val PACK\_ALIGNMENT: Int\n     val MAX\_TEXTURE\_SIZE:  
 Int\n     val MAX\_VIEWPORT\_DIMS: Int\n     val SUBPIXEL\_BITS: Int\n     val RED\_BITS: Int\n     val  
 GREEN\_BITS: Int\n     val BLUE\_BITS: Int\n     val ALPHA\_BITS: Int\n     val DEPTH\_BITS: Int\n     val  
 STENCIL\_BITS: Int\n     val POLYGON\_OFFSET\_UNITS: Int\n     val POLYGON\_OFFSET\_FACTOR: Int\n  
    val TEXTURE\_BINDING\_2D: Int\n     val SAMPLE\_BUFFERS: Int\n     val SAMPLES: Int\n     val  
 SAMPLE\_COVERAGE\_VALUE: Int\n     val SAMPLE\_COVERAGE\_INVERT: Int\n     val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n     val DONT\_CARE: Int\n     val FASTEST: Int\n     val  
 NICEST: Int\n     val GENERATE\_MIPMAP\_HINT: Int\n     val BYTE: Int\n     val UNSIGNED\_BYTE:  
 Int\n     val SHORT: Int\n     val UNSIGNED\_SHORT: Int\n     val INT: Int\n     val UNSIGNED\_INT: Int\n  
    val FLOAT: Int\n     val DEPTH\_COMPONENT: Int\n     val ALPHA: Int\n     val RGB: Int\n     val  
 RGBA: Int\n     val LUMINANCE: Int\n  
    val LUMINANCE\_ALPHA: Int\n     val UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n     val  
 UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n     val UNSIGNED\_SHORT\_5\_6\_5: Int\n     val  
 FRAGMENT\_SHADER: Int\n     val VERTEX\_SHADER: Int\n     val MAX\_VERTEX\_ATTRIBS: Int\n  
 val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n     val MAX\_VARYING\_VECTORS: Int\n     val  
 MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS:  
 Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n  
    val SHADER\_TYPE: Int\n     val DELETE\_STATUS: Int\n     val LINK\_STATUS: Int\n     val  
 VALIDATE\_STATUS: Int\n     val ATTACHED\_SHADERS: Int\n     val ACTIVE\_UNIFORMS: Int\n     val  
 ACTIVE\_ATTRIBUTES: Int\n     val SHADING\_LANGUAGE\_VERSION: Int\n     val  
 CURRENT\_PROGRAM: Int\n     val NEVER: Int\n     val LESS: Int\n     val EQUAL: Int\n     val  
 LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL: Int\n     val GEQUAL:  
 Int\n     val ALWAYS: Int\n     val KEEP: Int\n     val REPLACE: Int\n     val INCR: Int\n     val DECR:  
 Int\n     val INVERT: Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n     val VENDOR: Int\n  
 val RENDERER: Int\n     val VERSION: Int\n     val NEAREST: Int\n     val LINEAR: Int\n     val  
 NEAREST\_MIPMAP\_NEAREST: Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val  
 NEAREST\_MIPMAP\_LINEAR: Int\n     val LINEAR\_MIPMAP\_LINEAR: Int\n     val  
 TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER: Int\n     val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n     val TEXTURE\_2D: Int\n     val TEXTURE: Int\n     val  
 TEXTURE\_CUBE\_MAP: Int\n     val TEXTURE\_BINDING\_CUBE\_MAP: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n  
    val TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n  
 val TEXTURE0: Int\n     val TEXTURE1: Int\n     val TEXTURE2: Int\n     val TEXTURE3: Int\n     val  
 TEXTURE4: Int\n     val TEXTURE5: Int\n     val TEXTURE6: Int\n     val TEXTURE7: Int\n     val  
 TEXTURE8: Int\n     val TEXTURE9: Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val  
 TEXTURE12: Int\n     val TEXTURE13: Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val  
 TEXTURE16: Int\n     val TEXTURE17: Int\n     val TEXTURE18: Int\n     val TEXTURE19: Int\n     val  
 TEXTURE20: Int\n     val TEXTURE21: Int\n     val TEXTURE22: Int\n     val TEXTURE23: Int\n     val  
 TEXTURE24: Int\n     val TEXTURE25: Int\n     val TEXTURE26: Int\n     val TEXTURE27: Int\n     val  
 TEXTURE28: Int\n     val TEXTURE29: Int\n     val TEXTURE30: Int\n     val TEXTURE31: Int\n     val  
 ACTIVE\_TEXTURE:

```

Int\n    val REPEAT: Int\n    val CLAMP_TO_EDGE: Int\n    val MIRRORED_REPEAT: Int\n    val
FLOAT_VEC2: Int\n    val FLOAT_VEC3: Int\n    val FLOAT_VEC4: Int\n    val INT_VEC2: Int\n    val
INT_VEC3: Int\n    val INT_VEC4: Int\n    val BOOL: Int\n    val BOOL_VEC2: Int\n    val
BOOL_VEC3: Int\n    val BOOL_VEC4: Int\n    val FLOAT_MAT2: Int\n    val FLOAT_MAT3: Int\n
val FLOAT_MAT4: Int\n    val SAMPLER_2D: Int\n    val SAMPLER_CUBE: Int\n    val
VERTEX_ATTRIB_ARRAY_ENABLED: Int\n    val VERTEX_ATTRIB_ARRAY_SIZE: Int\n    val
VERTEX_ATTRIB_ARRAY_STRIDE: Int\n    val VERTEX_ATTRIB_ARRAY_TYPE: Int\n    val
VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n    val VERTEX_ATTRIB_ARRAY_POINTER: Int\n
val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n    val
IMPLEMENTATION_COLOR_READ_TYPE: Int\n    val IMPLEMENTATION_COLOR_READ_FORMAT:
Int\n    val COMPILE_STATUS: Int\n    val LOW_FLOAT:
Int\n    val MEDIUM_FLOAT: Int\n    val HIGH_FLOAT: Int\n    val LOW_INT: Int\n    val
MEDIUM_INT: Int\n    val HIGH_INT: Int\n    val FRAMEBUFFER: Int\n    val RENDERBUFFER: Int\n
val RGBA4: Int\n    val RGB5_A1: Int\n    val RGB565: Int\n    val DEPTH_COMPONENT16: Int\n
val STENCIL_INDEX: Int\n    val STENCIL_INDEX8: Int\n    val DEPTH_STENCIL: Int\n    val
RENDERBUFFER_WIDTH: Int\n    val RENDERBUFFER_HEIGHT: Int\n    val
RENDERBUFFER_INTERNAL_FORMAT: Int\n    val RENDERBUFFER_RED_SIZE: Int\n    val
RENDERBUFFER_GREEN_SIZE: Int\n    val RENDERBUFFER_BLUE_SIZE: Int\n    val
RENDERBUFFER_ALPHA_SIZE: Int\n    val RENDERBUFFER_DEPTH_SIZE: Int\n    val
RENDERBUFFER_STENCIL_SIZE: Int\n    val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n    val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE:
Int\n    val COLOR_ATTACHMENT0: Int\n    val DEPTH_ATTACHMENT: Int\n    val
STENCIL_ATTACHMENT: Int\n    val DEPTH_STENCIL_ATTACHMENT: Int\n    val NONE: Int\n
val FRAMEBUFFER_COMPLETE: Int\n    val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n    val
FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n    val FRAMEBUFFER_UNSUPPORTED: Int\n
val FRAMEBUFFER_BINDING: Int\n    val RENDERBUFFER_BINDING: Int\n    val
MAX_RENDERBUFFER_SIZE: Int\n    val INVALID_FRAMEBUFFER_OPERATION: Int\n    val
UNPACK_FLIP_Y_WEBGL: Int\n    val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n    val
CONTEXT_LOST_WEBGL: Int\n    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n    val
BROWSER_DEFAULT_WEBGL: Int\n    }\n}\n\n**\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*\npublic external abstract class
WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n    companion object {\n    val
DEPTH_BUFFER_BIT: Int\n    val STENCIL_BUFFER_BIT: Int\n    val COLOR_BUFFER_BIT: Int\n
val POINTS: Int\n    val LINES: Int\n    val LINE_LOOP: Int\n    val LINE_STRIP: Int\n    val
TRIANGLES: Int\n    val TRIANGLE_STRIP: Int\n    val TRIANGLE_FAN: Int\n    val ZERO: Int\n
val ONE: Int\n    val SRC_COLOR: Int\n    val ONE_MINUS_SRC_COLOR: Int\n    val SRC_ALPHA:
Int\n    val ONE_MINUS_SRC_ALPHA: Int\n    val DST_ALPHA: Int\n    val
ONE_MINUS_DST_ALPHA: Int\n    val DST_COLOR: Int\n    val ONE_MINUS_DST_COLOR: Int\n
val SRC_ALPHA_SATURATE: Int\n    val FUNC_ADD: Int\n    val BLEND_EQUATION: Int\n    val
BLEND_EQUATION_RGB: Int\n    val BLEND_EQUATION_ALPHA: Int\n    val FUNC_SUBTRACT:
Int\n    val FUNC_REVERSE_SUBTRACT: Int\n    val BLEND_DST_RGB: Int\n    val
BLEND_SRC_RGB: Int\n    val BLEND_DST_ALPHA: Int\n    val BLEND_SRC_ALPHA: Int\n    val
CONSTANT_COLOR: Int\n    val ONE_MINUS_CONSTANT_COLOR: Int\n    val CONSTANT_ALPHA:
Int\n    val ONE_MINUS_CONSTANT_ALPHA: Int\n    val BLEND_COLOR: Int\n    val

```

ARRAY\_BUFFER: Int\n     val ELEMENT\_ARRAY\_BUFFER: Int\n     val ARRAY\_BUFFER\_BINDING:  
 Int\n     val ELEMENT\_ARRAY\_BUFFER\_BINDING: Int\n     val STREAM\_DRAW: Int\n     val  
 STATIC\_DRAW: Int\n     val DYNAMIC\_DRAW: Int\n     val BUFFER\_SIZE: Int\n     val  
 BUFFER\_USAGE: Int\n     val CURRENT\_VERTEX\_ATTRIB: Int\n     val FRONT: Int\n     val BACK:  
 Int\n     val FRONT\_AND\_BACK: Int\n     val CULL\_FACE: Int\n     val BLEND: Int\n     val DITHER:  
 Int\n     val STENCIL\_TEST: Int\n     val DEPTH\_TEST: Int\n     val SCISSOR\_TEST: Int\n     val  
 POLYGON\_OFFSET\_FILL: Int\n     val SAMPLE\_ALPHA\_TO\_COVERAGE: Int\n     val  
 SAMPLE\_COVERAGE: Int\n     val NO\_ERROR:  
 Int\n     val INVALID\_ENUM: Int\n     val INVALID\_VALUE: Int\n     val INVALID\_OPERATION: Int\n  
 val OUT\_OF\_MEMORY: Int\n     val CW: Int\n     val CCW: Int\n     val LINE\_WIDTH: Int\n     val  
 ALIASED\_POINT\_SIZE\_RANGE: Int\n     val ALIASED\_LINE\_WIDTH\_RANGE: Int\n     val  
 CULL\_FACE\_MODE: Int\n     val FRONT\_FACE: Int\n     val DEPTH\_RANGE: Int\n     val  
 DEPTH\_WRITEMASK: Int\n     val DEPTH\_CLEAR\_VALUE: Int\n     val DEPTH\_FUNC: Int\n     val  
 STENCIL\_CLEAR\_VALUE: Int\n     val STENCIL\_FUNC: Int\n     val STENCIL\_FAIL: Int\n     val  
 STENCIL\_PASS\_DEPTH\_FAIL: Int\n     val STENCIL\_PASS\_DEPTH\_PASS: Int\n     val STENCIL\_REF:  
 Int\n     val STENCIL\_VALUE\_MASK: Int\n     val STENCIL\_WRITEMASK: Int\n     val  
 STENCIL\_BACK\_FUNC: Int\n     val STENCIL\_BACK\_FAIL: Int\n     val  
 STENCIL\_BACK\_PASS\_DEPTH\_FAIL: Int\n     val STENCIL\_BACK\_PASS\_DEPTH\_PASS: Int\n     val  
 STENCIL\_BACK\_REF: Int\n     val STENCIL\_BACK\_VALUE\_MASK:  
 Int\n     val STENCIL\_BACK\_WRITEMASK: Int\n     val VIEWPORT: Int\n     val SCISSOR\_BOX: Int\n  
 val COLOR\_CLEAR\_VALUE: Int\n     val COLOR\_WRITEMASK: Int\n     val UNPACK\_ALIGNMENT:  
 Int\n     val PACK\_ALIGNMENT: Int\n     val MAX\_TEXTURE\_SIZE: Int\n     val  
 MAX\_VIEWPORT\_DIMS: Int\n     val SUBPIXEL\_BITS: Int\n     val RED\_BITS: Int\n     val  
 GREEN\_BITS: Int\n     val BLUE\_BITS: Int\n     val ALPHA\_BITS: Int\n     val DEPTH\_BITS: Int\n     val  
 STENCIL\_BITS: Int\n     val POLYGON\_OFFSET\_UNITS: Int\n     val POLYGON\_OFFSET\_FACTOR: Int\n  
 val TEXTURE\_BINDING\_2D: Int\n     val SAMPLE\_BUFFERS: Int\n     val SAMPLES: Int\n     val  
 SAMPLE\_COVERAGE\_VALUE: Int\n     val SAMPLE\_COVERAGE\_INVERT: Int\n     val  
 COMPRESSED\_TEXTURE\_FORMATS: Int\n     val DONT\_CARE: Int\n     val FASTEST: Int\n     val  
 NICEST: Int\n     val GENERATE\_MIPMAP\_HINT: Int\n     val BYTE: Int\n     val UNSIGNED\_BYTE:  
 Int\n     val SHORT: Int\n     val UNSIGNED\_SHORT: Int\n     val INT: Int\n     val UNSIGNED\_INT:  
 Int\n     val FLOAT: Int\n     val DEPTH\_COMPONENT: Int\n     val ALPHA: Int\n     val RGB: Int\n  
 val RGBA: Int\n     val LUMINANCE: Int\n     val LUMINANCE\_ALPHA: Int\n     val  
 UNSIGNED\_SHORT\_4\_4\_4\_4: Int\n     val UNSIGNED\_SHORT\_5\_5\_5\_1: Int\n     val  
 UNSIGNED\_SHORT\_5\_6\_5: Int\n     val FRAGMENT\_SHADER: Int\n     val VERTEX\_SHADER: Int\n  
 val MAX\_VERTEX\_ATTRIBS: Int\n     val MAX\_VERTEX\_UNIFORM\_VECTORS: Int\n     val  
 MAX\_VARYING\_VECTORS: Int\n     val MAX\_COMBINED\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_VERTEX\_TEXTURE\_IMAGE\_UNITS: Int\n     val MAX\_TEXTURE\_IMAGE\_UNITS: Int\n     val  
 MAX\_FRAGMENT\_UNIFORM\_VECTORS: Int\n     val SHADER\_TYPE: Int\n     val DELETE\_STATUS:  
 Int\n     val LINK\_STATUS: Int\n     val VALIDATE\_STATUS: Int\n     val ATTACHED\_SHADERS: Int\n  
 val ACTIVE\_UNIFORMS: Int\n  
 val ACTIVE\_ATTRIBUTES: Int\n     val SHADING\_LANGUAGE\_VERSION: Int\n     val  
 CURRENT\_PROGRAM: Int\n     val NEVER: Int\n     val LESS: Int\n     val EQUAL: Int\n     val  
 LEQUAL: Int\n     val GREATER: Int\n     val NOTEQUAL: Int\n     val GEQUAL: Int\n     val ALWAYS:  
 Int\n     val KEEP: Int\n     val REPLACE: Int\n     val INCR: Int\n     val DECR: Int\n     val INVERT:  
 Int\n     val INCR\_WRAP: Int\n     val DECR\_WRAP: Int\n     val VENDOR: Int\n     val RENDERER: Int\n  
 val VERSION: Int\n     val NEAREST: Int\n     val LINEAR: Int\n     val  
 NEAREST\_MIPMAP\_NEAREST: Int\n     val LINEAR\_MIPMAP\_NEAREST: Int\n     val  
 NEAREST\_MIPMAP\_LINEAR: Int\n     val LINEAR\_MIPMAP\_LINEAR: Int\n     val



TEXTURE\_MAG\_FILTER: Int\n     val TEXTURE\_MIN\_FILTER: Int\n     val TEXTURE\_WRAP\_S: Int\n  
 val TEXTURE\_WRAP\_T: Int\n     val TEXTURE\_2D: Int\n     val TEXTURE: Int\n     val  
 TEXTURE\_CUBE\_MAP: Int\n  
     val TEXTURE\_BINDING\_CUBE\_MAP: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_X: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_X: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Y: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_Y: Int\n     val TEXTURE\_CUBE\_MAP\_POSITIVE\_Z: Int\n     val  
 TEXTURE\_CUBE\_MAP\_NEGATIVE\_Z: Int\n     val MAX\_CUBE\_MAP\_TEXTURE\_SIZE: Int\n     val  
 TEXTURE0: Int\n     val TEXTURE1: Int\n     val TEXTURE2: Int\n     val TEXTURE3: Int\n     val  
 TEXTURE4: Int\n     val TEXTURE5: Int\n     val TEXTURE6: Int\n     val TEXTURE7: Int\n     val  
 TEXTURE8: Int\n     val TEXTURE9: Int\n     val TEXTURE10: Int\n     val TEXTURE11: Int\n     val  
 TEXTURE12: Int\n     val TEXTURE13: Int\n     val TEXTURE14: Int\n     val TEXTURE15: Int\n     val  
 TEXTURE16: Int\n     val TEXTURE17: Int\n     val TEXTURE18: Int\n     val TEXTURE19: Int\n     val  
 TEXTURE20: Int\n     val TEXTURE21: Int\n     val TEXTURE22: Int\n  
     val TEXTURE23: Int\n     val TEXTURE24: Int\n     val TEXTURE25: Int\n     val TEXTURE26: Int\n  
     val TEXTURE27: Int\n     val TEXTURE28: Int\n     val TEXTURE29: Int\n     val TEXTURE30: Int\n  
 val TEXTURE31: Int\n     val ACTIVE\_TEXTURE: Int\n     val REPEAT: Int\n     val CLAMP\_TO\_EDGE:  
 Int\n     val MIRRORED\_REPEAT: Int\n     val FLOAT\_VEC2: Int\n     val FLOAT\_VEC3: Int\n     val  
 FLOAT\_VEC4: Int\n     val INT\_VEC2: Int\n     val INT\_VEC3: Int\n     val INT\_VEC4: Int\n     val BOOL:  
 Int\n     val BOOL\_VEC2: Int\n     val BOOL\_VEC3: Int\n     val BOOL\_VEC4: Int\n     val  
 FLOAT\_MAT2: Int\n     val FLOAT\_MAT3: Int\n     val FLOAT\_MAT4: Int\n     val SAMPLER\_2D: Int\n  
     val SAMPLER\_CUBE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_ENABLED: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_SIZE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_STRIDE: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_TYPE: Int\n     val VERTEX\_ATTRIB\_ARRAY\_NORMALIZED:  
 Int\n     val VERTEX\_ATTRIB\_ARRAY\_POINTER: Int\n     val  
 VERTEX\_ATTRIB\_ARRAY\_BUFFER\_BINDING: Int\n     val IMPLEMENTATION\_COLOR\_READ\_TYPE:  
 Int\n     val IMPLEMENTATION\_COLOR\_READ\_FORMAT: Int\n     val COMPILE\_STATUS: Int\n     val  
 LOW\_FLOAT: Int\n     val MEDIUM\_FLOAT: Int\n     val HIGH\_FLOAT: Int\n     val LOW\_INT: Int\n  
 val MEDIUM\_INT: Int\n     val HIGH\_INT: Int\n     val FRAMEBUFFER: Int\n     val RENDERBUFFER:  
 Int\n     val RGBA4: Int\n     val RGB5\_A1: Int\n     val RGB565: Int\n     val DEPTH\_COMPONENT16:  
 Int\n     val STENCIL\_INDEX: Int\n     val STENCIL\_INDEX8: Int\n     val DEPTH\_STENCIL: Int\n     val  
 RENDERBUFFER\_WIDTH: Int\n     val RENDERBUFFER\_HEIGHT: Int\n     val  
 RENDERBUFFER\_INTERNAL\_FORMAT: Int\n     val RENDERBUFFER\_RED\_SIZE: Int\n     val  
 RENDERBUFFER\_GREEN\_SIZE: Int\n     val RENDERBUFFER\_BLUE\_SIZE: Int\n     val  
 RENDERBUFFER\_ALPHA\_SIZE: Int\n     val RENDERBUFFER\_DEPTH\_SIZE:  
 Int\n     val RENDERBUFFER\_STENCIL\_SIZE: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_OBJECT\_TYPE: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_OBJECT\_NAME: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_LEVEL: Int\n     val  
 FRAMEBUFFER\_ATTACHMENT\_TEXTURE\_CUBE\_MAP\_FACE: Int\n     val COLOR\_ATTACHMENT0:  
 Int\n     val DEPTH\_ATTACHMENT: Int\n     val STENCIL\_ATTACHMENT: Int\n     val  
 DEPTH\_STENCIL\_ATTACHMENT: Int\n     val NONE: Int\n     val FRAMEBUFFER\_COMPLETE: Int\n  
 val FRAMEBUFFER\_INCOMPLETE\_ATTACHMENT: Int\n     val  
 FRAMEBUFFER\_INCOMPLETE\_MISSING\_ATTACHMENT: Int\n     val  
 FRAMEBUFFER\_INCOMPLETE\_DIMENSIONS: Int\n     val FRAMEBUFFER\_UNSUPPORTED: Int\n  
 val FRAMEBUFFER\_BINDING: Int\n     val RENDERBUFFER\_BINDING: Int\n     val  
 MAX\_RENDERBUFFER\_SIZE: Int\n     val INVALID\_FRAMEBUFFER\_OPERATION: Int\n     val  
 UNPACK\_FLIP\_Y\_WEBGL: Int\n     val UNPACK\_PREMULTIPLY\_ALPHA\_WEBGL: Int\n     val  
 CONTEXT\_LOST\_WEBGL: Int\n

```

    val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
    val BROWSER_DEFAULT_WEBGL: Int
}
}

* Exposes the JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin
public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit = definedExternally) : Event {
    open val statusMessage: String
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WebGLContextEventInit : EventInit {
    var statusMessage: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WebGLContextEventInit {
    val o = js("{}")
    o["statusMessage"] = statusMessage
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

* Exposes the JavaScript [ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin
public external open class ArrayBuffer(length: Int) : BufferDataSource {
    open val byteLength: Int
    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer
    companion object {
        fun isView(value: Any?): Boolean
    }
}

* Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin
public external interface ArrayBufferView : BufferDataSource {
    val buffer: ArrayBuffer
    val byteOffset: Int
    val byteLength: Int
}

* Exposes the JavaScript [Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin
public external open class Int8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Int8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Int8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Int8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

* Exposes the JavaScript [Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin
public external open class Uint8Array : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8Array)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer: ArrayBuffer
    override val byteOffset: Int
    override val byteLength: Int
    fun set(array: Uint8Array, offset: Int = definedExternally)
    fun set(array: Array<Byte>, offset: Int = definedExternally)
    fun subarray(start: Int, end: Int): Uint8Array
    companion object {
        val BYTES_PER_ELEMENT: Int
    }
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }

* Exposes the JavaScript [Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin
public external open class Uint8ClampedArray : ArrayBufferView {
    constructor(length: Int)
    constructor(array: Uint8ClampedArray)
    constructor(array: Array<Byte>)
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)
    open val length: Int
    override val buffer:

```

```

ArrayBuffer\n  override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: Uint8ClampedArray,
offset: Int = definedExternally)\n  fun set(array: Array<Byte>, offset: Int = definedExternally)\n  fun
subarray(start: Int, end: Int): Uint8ClampedArray\n\n  companion object {\n    val BYTES_PER_ELEMENT:
Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic
inline operator fun Uint8ClampedArray.get(index: Int): Byte =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class
Int16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Int16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int):
Int16Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic external open
class Uint16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Uint16Array,
offset: Int = definedExternally)\n  fun set(array: Array<Short>, offset: Int = definedExternally)\n  fun
subarray(start: Int, end: Int): Uint16Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external open class
Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length:
Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n  override val byteLength: Int\n  fun
set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array: Array<Int>, offset: Int =
definedExternally)\n  fun subarray(start: Int, end: Int): Int32Array\n\n  companion object {\n    val
BYTES_PER_ELEMENT: Int\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open
class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n

```

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    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val
length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n
fun set(array: Uint32Array, offset: Int = definedExternally)\n    fun set(array: Array<Int>, offset: Int =
definedExternally)\n    fun subarray(start: Int, end: Int): Uint32Array\n\n    companion object {\n        val
BYTES_PER_ELEMENT: Int\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Uint32Array.get(index: Int):
Int = asDynamic()[index]\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Uint32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n    /**\n     * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n     */\n    public external
open class Float32Array : ArrayBufferView {\n        constructor(length: Int)\n        constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n        constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n        open val length: Int\n        override val buffer: ArrayBuffer\n        override val byteOffset:
Int\n        override val byteLength: Int\n        fun set(array: Float32Array, offset: Int = definedExternally)\n        fun
set(array: Array<Float>, offset: Int = definedExternally)\n        fun subarray(start: Int, end: Int): Float32Array\n\n
companion object {\n            val BYTES_PER_ELEMENT: Int\n        }\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Float32Array.set(index: Int,
value: Float) { asDynamic()[index]
= value }\n\n    /**\n     * Exposes the JavaScript
[Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n     */\n    public external open
class Float64Array : ArrayBufferView {\n        constructor(length: Int)\n        constructor(array: Float64Array)\n
constructor(array: Array<Double>)\n        constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n        open val length: Int\n        override val buffer: ArrayBuffer\n        override val byteOffset:
Int\n        override val byteLength: Int\n        fun set(array: Float64Array, offset: Int = definedExternally)\n        fun
set(array: Array<Double>, offset: Int = definedExternally)\n        fun subarray(start: Int, end: Int): Float64Array\n\n
companion object {\n            val BYTES_PER_ELEMENT: Int\n        }\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n    @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline operator fun Float64Array.set(index: Int,
value: Double) { asDynamic()[index] = value }\n\n    /**\n     * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n     */\n    public external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n        override val buffer: ArrayBuffer\n        override val byteOffset: Int\n        override val
byteLength: Int\n        fun getInt8(byteOffset: Int): Byte\n        fun getUint8(byteOffset: Int): Byte\n        fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n        fun getUint16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n        fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n        fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n        fun
getFloat32(byteOffset:
Int, littleEndian: Boolean = definedExternally): Float\n        fun getFloat64(byteOffset: Int, littleEndian: Boolean =
definedExternally): Double\n        fun setInt8(byteOffset: Int, value: Byte)\n        fun setUint8(byteOffset: Int, value:
Byte)\n        fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n        fun
setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n        fun setInt32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n        fun setUint32(byteOffset: Int, value: Int, littleEndian:
Boolean = definedExternally)\n        fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean =

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definedExternally)\n fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource", /*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n//
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n var
clipboardData: DataTransfer? /* = null *\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n val o = js(\\"({})\\")\n o[\"clipboardData\"] = clipboardData\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes
the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n
*\n\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) :
Event {\n open val clipboardData: DataTransfer?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n *\n\npublic external abstract class Clipboard : EventTarget {\n fun read(): Promise<DataTransfer>\n fun
readText(): Promise<String>\n fun write(data: DataTransfer): Promise<Unit>\n fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n var allowWithoutGesture:
Boolean? /* = false *\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val
o = js(\\"({})\\")\n o[\"allowWithoutGesture\"] = allowWithoutGesture\n return o\n}, /*\n * Copyright 2010-
2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList :
ItemArrayLike<String> {\n open var mediaText: String\n fun appendMedium(medium: String)\n fun
deleteMedium(medium: String)\n override fun item(index: Int):
String?\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic
inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n *\n\npublic external abstract
class StyleSheet {\n open val type: String\n open val href: String?\n open val ownerNode:
UnionElementOrProcessingInstruction?\n open val parentStyleSheet: StyleSheet?\n open val title: String?\n
open val media: MediaList\n open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n *\n\npublic external
abstract class CSSStyleSheet : StyleSheet {\n open val ownerRule: CSSRule?\n open val cssRules:
CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n *\n\npublic
external
abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n override fun item(index: Int):
StyleSheet?\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):

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StyleSheet? = asDynamic()[index]\n\n/\*\*\n \* Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n \* \npublic external interface LinkStyle {\n val sheet: StyleSheet?\n get() = definedExternally\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n \* \npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n override fun item(index: Int): CSSRule?\n}\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\n\n/\*\*\n \* Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n \* \npublic external abstract class CSSRule {\n open val type: Short\n open var cssText: String\n open val parentRule: CSSRule?\n open val parentStyleSheet: CSSStyleSheet?\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n \* \npublic external abstract class CSSStyleRule : CSSRule {\n open var selectorText: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n open val href: String\n open val media: MediaList\n open val styleSheet: CSSStyleSheet\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n \* \npublic external abstract class CSSGroupingRule : CSSRule {\n open val cssRules: CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n \* \npublic external abstract class CSSMediaRule : CSSGroupingRule {\n open val media: MediaList\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n \* \npublic external abstract class CSSPageRule : CSSGroupingRule {\n open var selectorText: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n open val name: String\n open val style: CSSStyleDeclaration\n\n companion object {\n val STYLE\_RULE: Short\n val CHARSET\_RULE: Short\n val IMPORT\_RULE: Short\n val MEDIA\_RULE: Short\n val FONT\_FACE\_RULE: Short\n val PAGE\_RULE: Short\n val MARGIN\_RULE: Short\n val NAMESPACE\_RULE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n \* \npublic external abstract class CSSNamespaceRule : CSSRule {\n open val namespaceURI: String\n open val prefix:

```

String companion object {
    val STYLE_RULE: Short
    val CHARSET_RULE: Short
    val IMPORT_RULE: Short
    val MEDIA_RULE: Short
    val FONT_FACE_RULE: Short
    val PAGE_RULE: Short
    val MARGIN_RULE: Short
    val NAMESPACE_RULE: Short
}

/** Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin */
public external abstract class CSSStyleDeclaration : ItemArrayLike<String> {
    open var cssText: String
    open val parentRule: CSSRule?
    open var cssFloat: String
    open var alignContent: String
    open var alignItems: String
    open var alignSelf: String
    open var animation: String
    open var animationDelay: String
    open var animationDirection: String
    open var animationDuration: String
    open var animationFillMode: String
    open var animationIterationCount: String
    open var animationName: String
    open var animationPlayState: String
    open var animationTimingFunction: String
    open var backfaceVisibility: String
    open var background: String
    open var backgroundAttachment: String
    open var backgroundClip: String
    open var backgroundColor: String
    open var backgroundImage: String
    open var backgroundOrigin: String
    open var backgroundPosition: String
    open var backgroundRepeat: String
    open var backgroundSize: String
    open var border: String
    open var borderBottom: String
    open var borderBottomColor: String
    open var borderBottomLeftRadius: String
    open var borderBottomRightRadius: String
    open var borderBottomStyle: String
    open var borderBottomWidth: String
    open var borderCollapse: String
    open var borderColor: String
    open var borderImage: String
    open var borderImageOutset: String
    open var borderImageRepeat: String
    open var borderImageSlice: String
    open var borderImageSource: String
    open var borderImageWidth: String
    open var borderLeft: String
    open var borderLeftColor: String
    open var borderLeftStyle: String
    open var borderLeftWidth: String
    open var borderRadius: String
    open var borderRight: String
    open var borderRightColor: String
    open var borderRightStyle: String
    open var borderRightWidth: String
    open var borderSpacing: String
    open var borderStyle: String
    open var borderTop: String
    open var borderTopColor: String
    open var borderTopLeftRadius: String
    open var borderTopRightRadius: String
    open var borderTopStyle: String
    open var borderTopWidth: String
    open var borderWidth: String
    open var bottom: String
    open var boxDecorationBreak: String
    open var boxShadow: String
    open var boxSizing: String
    open var breakAfter: String
    open var breakBefore: String
    open var breakInside: String
    open var captionSide: String
    open var clear: String
    open var clip: String
    open var color: String
    open var columnCount: String
    open var columnFill: String
    open var columnGap: String
    open var columnRule: String
    open var columnRuleColor: String
    open var columnRuleStyle: String
    open var columnRuleWidth: String
    open var columnSpan: String
    open var columnWidth: String
    open var columns: String
    open var content: String
    open var counterIncrement: String
    open var counterReset: String
    open var cursor: String
    open var direction: String
    open var display: String
    open var emptyCells: String
    open var filter: String
    open var flex: String
    open var flexBasis: String
    open var flexDirection: String
    open var flexFlow: String
    open var flexGrow: String
    open var flexShrink: String
    open var flexWrap: String
    open var font: String
    open var fontFamily: String
    open var fontFeatureSettings: String
    open var fontKerning: String
    open var fontLanguageOverride: String
    open var fontSize: String
    open var fontSizeAdjust: String
    open var fontStretch: String
    open var fontStyle: String
    open var fontSynthesis: String
    open var fontVariant: String
    open var fontVariantAlternates: String
    open var fontVariantCaps: String
    open var fontVariantEastAsian: String
    open var fontVariantLigatures: String
    open var fontVariantNumeric: String
    open var fontVariantPosition: String
    open var fontWeight: String
    open var hangingPunctuation: String
    open var height: String
    open var hyphens: String
    open var imageOrientation: String
    open var imageRendering: String
    open var imageResolution: String
    open var imeMode: String
    open var justifyContent: String
    open var left: String
    open var letterSpacing: String
    open var lineBreak: String
    open var lineHeight: String
    open var listStyle: String
    open var listStyleImage: String
    open var listStylePosition: String
    open var listStyleType: String
    open var margin:

```

```

String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n
open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore:
String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n
open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var
maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n
open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft:
String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var
objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open
var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n
open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var
overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom:
String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open
var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var
perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position:
String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter:
String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var
tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var
textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n
open var voiceVolume: String\n open var whiteSpace: String\n open var widows: String\n open var width:
String\n open var wordBreak: String\n open var wordSpacing: String\n open var wordWrap: String\n open
var writingMode: String\n open var zIndex: String\n open var _dashed_attribute: String\n open var
_camel_cased_attribute: String\n open var _webkit_cased_attribute: String\n fun getPropertyValue(property:
String): String\n fun getPropertyPriority(property: String): String\n fun setProperty(property: String, value:
String, priority: String = definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun
setPropertyPriority(property: String, priority: String)\n fun removeProperty(property: String): String\n override
fun item(index: Int): String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic
external interface ElementCSSInlineStyle {\n val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the
JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class
CSS {\n companion object {\n fun escape(ident: String): String\n }\n}\n\npublic external interface
UnionElementOrProcessingInstruction, \"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin\n */\n\npublic

```



```

external interface MediaKeySystemConfiguration {
    var label: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
    var initDataTypes: Array<String>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
    var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) =
definedExternally
    var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */
    get() = definedExternally
    set(value) = definedExternally
    var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */
    get() = definedExternally
    set(value) = definedExternally
    var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */
    get() = definedExternally
    set(value) = definedExternally
    var sessionTypes: Array<String>?
    get() =
definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaKeySystemConfiguration(label:
String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{
    val o = js("{}")
    o["label"] = label
    o["initDataTypes"] = initDataTypes
    o["audioCapabilities"] = audioCapabilities
    o["videoCapabilities"] = videoCapabilities
    o["distinctiveIdentifier"] = distinctiveIdentifier
    o["persistentState"] = persistentState
    o["sessionTypes"]
= sessionTypes
    return o
}
public external
interface MediaKeySystemMediaCapability {
    var contentType: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
    var robustness: String? /* = "" */
    get() =
definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun
MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""):
MediaKeySystemMediaCapability {
    val o = js("{}")
    o["contentType"] = contentType
    o["robustness"] = robustness
    return o
}
/**
 * Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin
*/
public external abstract class MediaKeySystemAccess {
    open val keySystem: String
    fun
getConfiguration(): MediaKeySystemConfiguration
    fun createMediaKeys(): Promise<MediaKeys>
}
/**
 * Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys)
to Kotlin
*/
public external abstract class MediaKeys {
    fun createSession(sessionType:
MediaKeySessionType = definedExternally): MediaKeySession
    fun setServerCertificate(serverCertificate:
dynamic): Promise<Boolean>
}
/**
 * Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin
*/
public external abstract class MediaKeySession : EventTarget {
    open val sessionId: String
    open val expiration:
Double
    open val closed: Promise<Unit>
    open val keyStatuses: MediaKeyStatusMap
    open var
onkeystatuschange: ((Event) -> dynamic)?
    open var onmessage: ((MessageEvent) -> dynamic)?
    fun
generateRequest(initDataType: String, initData: dynamic): Promise<Unit>
    fun load(sessionId: String):
Promise<Boolean>
    fun update(response: dynamic): Promise<Unit>
    fun close(): Promise<Unit>
    fun
remove(): Promise<Unit>
}
/**
 * Exposes the JavaScript
[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin
*/
public external abstract class MediaKeyStatusMap {
    open val size: Int
    fun has(keyId: dynamic): Boolean
    fun
get(keyId: dynamic): Any?
}
/**
 * Exposes the JavaScript
[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin
*/
public external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :

```

```

Event {\n  open val messageType: MediaKeyMessageType\n  open val message: ArrayBuffer\n\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n  var
messageType: MediaKeyMessageType?\n  var message:
ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic
inline fun MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n  val
o = js(\"({})\")\n  o[\"messageType\"] = messageType\n  o[\"message\"] = message\n  o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\npublic external open class
MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n
open val initDataType: String\n  open val initData: ArrayBuffer?\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n  var initDataType: String? /* =
\"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
initData: ArrayBuffer? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n  val o = js(\"({})\")\n
o[\"initDataType\"] = initData\n  o[\"initData\"] = initData\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"]
= cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeysRequirement {\n  companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
\"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL:
MediaKeysRequirement get() = \"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline
val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-
allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeySessionType {\n  companion object\n}\n\npublic inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
\"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-
license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeyStatus {\n  companion object\n}\n\npublic inline
val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() =
\"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
\"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
\"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val

```

```

MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = `status-
pending`.asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = `internal-
error`.asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement
this interface! */\n@JsName(`null`)\n@Suppress(`NESTED_CLASS_IN_EXTERNAL_INTERFACE`)\n\npublic
external interface MediaKeyMessageType {\n    companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = `license-
request`.asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = `license-
renewal`.asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = `license-
release`.asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() =
`individualization-request`.asDynamic().unsafeCast<MediaKeyMessageType>()\n\n/*\n * Copyright 2010-2022
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes the JavaScript
[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\n\npublic external open class
UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n    open val view: Window?\n    open val detail: Int\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface UIEventInit :
EventInit {\n        var view: Window? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n        var detail: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    }\n\n    @Suppress(`INVISIBLE_REFERENCE`),
`INVISIBLE_MEMBER`)\n    @kotlin.internal.InlineOnly\n    public
inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): UIEventInit {\n        val o = js("{}")\n        o["view"] = view\n        o["detail"] =
detail\n        o["bubbles"] = bubbles\n        o["cancelable"] = cancelable\n        o["composed"] = composed\n        return
o\n    }\n\n    /**\n     * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent)
to Kotlin\n     */\n\n    public external open class FocusEvent(type: String, eventInitDict: FocusEventInit =
definedExternally) : UIEvent {\n        open val relatedTarget: EventTarget?\n\n        companion object {\n            val
NONE: Short\n            val CAPTURING_PHASE: Short\n            val AT_TARGET: Short\n            val
BUBBLING_PHASE: Short\n        }\n\n        public external interface FocusEventInit : UIEventInit {\n            var
relatedTarget: EventTarget? /* = null */\n            get() = definedExternally\n            set(value) =
definedExternally\n        }\n\n        @Suppress(`INVISIBLE_REFERENCE`),
`INVISIBLE_MEMBER`)\n        @kotlin.internal.InlineOnly\n        public inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n            val o = js("{}")\n            o["relatedTarget"] =
relatedTarget\n            o["view"] = view\n            o["detail"] = detail\n            o["bubbles"] = bubbles\n            o["cancelable"] =
cancelable\n            o["composed"] = composed\n            return o\n        }\n\n        /**\n         * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n         */\n\n        public external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n            open val screenX: Int\n            open val screenY: Int\n            open val clientX: Int\n            open val clientY: Int\n            open val ctrlKey: Boolean\n            open val shiftKey:
Boolean\n            open val altKey: Boolean\n            open val metaKey: Boolean\n            open val button: Short\n            open val
buttons: Short\n            open val relatedTarget: EventTarget?\n            open val region: String?\n            open val pageX: Double\n

```

```

open val pageY: Double\n open val x: Double\n open val y: Double\n open val offsetX: Double\n open val
offsetY: Double\n fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n\npublic external interface MouseEventInit : EventModifierInit {\n var screenX: Int? /* = 0 */\n
get() = definedExternally\n set(value) = definedExternally\n var screenY: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientX: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var clientY: Int? /* = 0 */\n
get() = definedExternally\n set(value) = definedExternally\n var button: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean?
= false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n val o =
js(\"({})\")\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"]
= clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n
o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n
o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] =
modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n
o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean?
/* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false
*/\n get() = definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
modifierCapsLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var modifierFn: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
modifierFnLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
modifierHyper: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
modifierNumLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n
var modifierScrollLock: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var modifierSuper: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var modifierSymbol: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbolLock:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:

```

```

Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n  val o = js(\("{ }")\n  o["ctrlKey"] = ctrlKey\n
  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"]
= modifierAltGraph\n  o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] =
modifierNumLock\n  o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n  open val
deltaX: Double\n  open val deltaY: Double\n
  open val deltaZ: Double\n  open val deltaMode: Int\n\n  companion object {\n    val DOM_DELTA_PIXEL:
Int\n    val DOM_DELTA_LINE: Int\n    val DOM_DELTA_PAGE: Int\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
  }\n\n\npublic external interface WheelEventInit : MouseEventInit {\n  var deltaX: Double? /* = 0.0 */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var deltaY: Double? /* = 0.0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var deltaZ: Double? /* = 0.0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var deltaMode: Int? /* = 0 */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double?
= 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY:
Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey:
Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false,
modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n  val o = js(\("{ }")\n
o["deltaX"] = deltaX\n  o["deltaY"] = deltaY\n  o["deltaZ"] = deltaZ\n  o["deltaMode"] = deltaMode\n
o["screenX"] = screenX\n
  o["screenY"] = screenY\n  o["clientX"] = clientX\n  o["clientY"] = clientY\n  o["button"] = button\n
o["buttons"] = buttons\n  o["relatedTarget"] = relatedTarget\n  o["region"] = region\n  o["ctrlKey"] =
ctrlKey\n  o["shiftKey"] = shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n  o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n  o["modifierFnLock"] = modifierFnLock\n  o["modifierHyper"] =
modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n  o["modifierScrollLock"] =
modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n  o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] = view\n  o["detail"] = detail\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent)
to Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit =
definedExternally) : UIEvent {\n  open val data: String\n  open val isComposing: Boolean\n\n  companion object
{\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val

```

```

BUBBLING_PHASE: ShortInt\n\n\npublic external interface InputEventInit : UIEventInit {\n    var data:
String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var isComposing:
Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean?
= false): InputEventInit {\n    val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"isComposing\"] = isComposing\n
o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
    open val key: String\n    open val code: String\n    open val location: Int\n    open val ctrlKey: Boolean\n    open val
shiftKey: Boolean\n    open val altKey: Boolean\n    open val metaKey: Boolean\n    open val repeat: Boolean\n
    open val isComposing: Boolean\n    open val charCode: Int\n    open val keyCode: Int\n    open val which: Int\n
    fun getModifierState(keyArg: String): Boolean\n\n    companion object {\n        val
DOM_KEY_LOCATION_STANDARD:
Int\n        val DOM_KEY_LOCATION_LEFT: Int\n        val DOM_KEY_LOCATION_RIGHT: Int\n        val
DOM_KEY_LOCATION_NUMPAD: Int\n        val NONE: ShortInt\n        val CAPTURING_PHASE: ShortInt\n
val AT_TARGET: ShortInt\n        val BUBBLING_PHASE: ShortInt\n}\n\n\npublic external interface
KeyboardEventInit : EventModifierInit {\n    var key: String? /* = \"\" */\n        get() = definedExternally\n
set(value) = definedExternally\n    var code: String? /* = \"\" */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var location: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var repeat: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var isComposing: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline
fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false,
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n    val o =
js(\"({})\")\n    o[\"key\"] = key\n    o[\"code\"] = code\n    o[\"location\"] = location\n    o[\"repeat\"] = repeat\n
o[\"isComposing\"] = isComposing\n    o[\"ctrlKey\"] = ctrlKey\n    o[\"shiftKey\"] = shiftKey\n    o[\"altKey\"]
= altKey\n    o[\"metaKey\"] = metaKey\n    o[\"modifierAltGraph\"] = modifierAltGraph\n
o[\"modifierCapsLock\"] = modifierCapsLock\n    o[\"modifierFn\"] = modifierFn\n    o[\"modifierFnLock\"] =
modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n
o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] =
view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n */\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n    open val data: String\n\n    companion object {\n        val NONE: ShortInt\n
        val CAPTURING_PHASE: ShortInt\n        val AT_TARGET: ShortInt\n        val BUBBLING_PHASE: ShortInt\n
}\n\n\npublic external interface CompositionEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n        get() =

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definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? =
\"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CompositionEventInit {\n    val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n */\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally)
{\n    open val type: String\n    open val target: EventTarget?\n    open val currentTarget: EventTarget?\n    open val
eventPhase: Short\n    open val bubbles: Boolean\n    open val cancelable: Boolean\n    open val defaultPrevented:
Boolean\n    open val composed: Boolean\n    open val isTrusted: Boolean\n    open val timeStamp: Number\n    fun
composedPath(): Array<EventTarget>\n    fun stopPropagation()\n    fun stopImmediatePropagation()\n    fun
preventDefault()\n    fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n    companion object {\n
        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract
class EventTarget {\n    fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n    fun addEventListener(type:
String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun removeEventListener(type:
String, callback: EventListener?, options: dynamic = definedExternally)\n    fun removeEventListener(type: String,
callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun dispatchEvent(event: Event):
Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external
interface EventListener {\n    fun handleEvent(event: Event)\n}\n\n/*\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n    open val length: Int\n    fun
item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n    fun namedItem(name:
String): UnionElementOrHTMLCollection?}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n */\n
public external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n    open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n */\n
public external abstract class HTMLOptionsCollection : HTMLCollection {\n    override var length: Int\n    open
var selectedIndex: Int\n    fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:

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dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option:
HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript
[HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n *\npublic external
abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var
translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n
open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable:
Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var
spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n
open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun focus()\n
fun blur()\n
fun forceSpellCheck()\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n *\npublic external abstract class HTMLUnknownElement
: HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n *\npublic external
abstract class DOMStringMap\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.get(name:
String): String? = asDynamic()[name]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.set(name:
String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n *\npublic
external abstract class HTMLHtmlElement : HTMLElement {\n open var version: String\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n

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    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to
Kotlin\n */\npublic external abstract class HTMLHeadElement : HTMLElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE:
Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to
Kotlin\n */\npublic external abstract class HTMLTitleElement : HTMLElement {\n    open var text: String\n\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE:
Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to
Kotlin\n */\npublic external abstract class HTMLBaseElement : HTMLElement {\n    open var href: String\n    open
var target: String\n\n    companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE:
Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to
Kotlin\n */\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n    open var href:
String\n    open var crossOrigin: String?\n    open var rel: String\n    open var `as`: RequestDestination\n    open val
relList: DOMTokenList\n    open var media: String\n    open var nonce: String\n    open var hreflang: String\n
open var type: String\n    open val sizes: DOMTokenList\n    open var referrerPolicy: String\n    open var charset:
String\n    open var rev: String\n    open var target:
String\n    open var scope: String\n    open var workerType: WorkerType\n\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n *\npublic
external
abstract class HTMLMetaElement : HTMLElement {\n    open var name: String\n    open var httpEquiv: String\n
open var content: String\n    open var scheme: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n            val ATTRIBUTE_NODE: Short\n                val TEXT_NODE: Short\n                    val CDATA_SECTION_NODE:
Short\n                        val ENTITY_REFERENCE_NODE: Short\n                            val ENTITY_NODE: Short\n                                val
PROCESSING_INSTRUCTION_NODE: Short\n                                    val COMMENT_NODE: Short\n                                        val
DOCUMENT_NODE: Short\n                                            val DOCUMENT_TYPE_NODE: Short\n                                                val
DOCUMENT_FRAGMENT_NODE: Short\n                                                    val NOTATION_NODE: Short\n                                                        val
DOCUMENT_POSITION_DISCONNECTED: Short\n                                                            val DOCUMENT_POSITION_PRECEDING: Short\n
                                                                val DOCUMENT_POSITION_FOLLOWING: Short\n                                                                    val DOCUMENT_POSITION_CONTAINS: Short\n
                                                                                                                val DOCUMENT_POSITION_CONTAINED_BY: Short\n
                                                                                                                    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement)
to Kotlin\n *\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n    open var media:
String\n    open var nonce: String\n    open var type: String\n\n    companion object {\n        val ELEMENT_NODE:
Short\n            val ATTRIBUTE_NODE: Short\n                val TEXT_NODE: Short\n                    val CDATA_SECTION_NODE:
Short\n                        val ENTITY_REFERENCE_NODE: Short\n                            val ENTITY_NODE: Short\n                                val
PROCESSING_INSTRUCTION_NODE: Short\n                                    val COMMENT_NODE: Short\n                                        val
DOCUMENT_NODE: Short\n                                            val DOCUMENT_TYPE_NODE: Short\n                                                val
DOCUMENT_FRAGMENT_NODE: Short\n                                                    val NOTATION_NODE: Short\n                                                        val
DOCUMENT_POSITION_DISCONNECTED: Short\n                                                            val DOCUMENT_POSITION_PRECEDING: Short\n
                                                                val DOCUMENT_POSITION_FOLLOWING: Short\n                                                                    val DOCUMENT_POSITION_CONTAINS: Short\n
                                                                                                                val DOCUMENT_POSITION_CONTAINED_BY: Short\n
                                                                                                                    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n *\npublic
external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n    open var text: String\n
open var link: String\n    open var vLink: String\n    open var aLink: String\n    open var bgColor: String\n    open
var background: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n            val
ATTRIBUTE_NODE: Short\n                val TEXT_NODE: Short\n                    val CDATA_SECTION_NODE: Short\n                        val
ENTITY_REFERENCE_NODE: Short\n                            val ENTITY_NODE: Short\n                                val
PROCESSING_INSTRUCTION_NODE: Short\n                                    val COMMENT_NODE: Short\n                                        val
DOCUMENT_NODE: Short\n                                            val DOCUMENT_TYPE_NODE: Short\n                                                val
DOCUMENT_FRAGMENT_NODE: Short\n                                                    val NOTATION_NODE: Short\n                                                        val
DOCUMENT_POSITION_DISCONNECTED: Short\n                                                            val DOCUMENT_POSITION_PRECEDING: Short\n
                                                                val DOCUMENT_POSITION_FOLLOWING:
Short\n                                                                    val DOCUMENT_POSITION_CONTAINS: Short\n
                                                                                                                val
DOCUMENT_POSITION_CONTAINED_BY: Short\n
                                                                                                                    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n
*\npublic external abstract class HTMLHeadingElement : HTMLElement {\n    open var align: String\n

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companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin */
public external abstract class HTMLParagraphElement : HTMLElement {
    open var align: String
}

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin */
public external abstract class HTMLHRElement : HTMLElement {
    open var align: String
    open var color: String
    open var noShade: Boolean
    open var size: String
    open var width: String
}

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin */
public external abstract class HTMLPreElement : HTMLElement {
    open var width: Int
}

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin */
public external abstract class HTMLQuoteElement : HTMLElement {
    open var cite: String
}

companion object {
    val ELEMENT_NODE: Short
    val ATTRIBUTE_NODE: Short
    val TEXT_NODE: Short
    val CDATA_SECTION_NODE: Short
    val ENTITY_REFERENCE_NODE: Short
    val ENTITY_NODE: Short
    val PROCESSING_INSTRUCTION_NODE: Short
    val COMMENT_NODE: Short
    val DOCUMENT_NODE: Short
    val DOCUMENT_TYPE_NODE: Short
    val DOCUMENT_FRAGMENT_NODE: Short
    val NOTATION_NODE: Short
    val DOCUMENT_POSITION_DISCONNECTED: Short
    val DOCUMENT_POSITION_PRECEDING: Short
    val DOCUMENT_POSITION_FOLLOWING: Short
    val DOCUMENT_POSITION_CONTAINS: Short
    val DOCUMENT_POSITION_CONTAINED_BY: Short
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

```

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COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to
Kotlin\n */\npublic external abstract class HTMLListElement : HTMLElement {\n    open var reversed: Boolean\n
    open var start: Int\n    open var type: String\n    open var compact: Boolean\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n
        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLListElement) to Kotlin\n */\npublic
external abstract class HTMLListElement : HTMLElement {\n    open var compact: Boolean\n    open var type:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n
*/\npublic external abstract class HTMLLIElement : HTMLElement {\n    open var value: Int\n    open var type:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to
Kotlin\n */\npublic external abstract class HTMLDListElement : HTMLElement {\n    open var compact:
Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n
        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin \n * \n public
external abstract class HTMLDivElement : HTMLElement { \n    open var align: String \n \n    companion object { \n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n
    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin \n
* \n public external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils { \n    open
var target: String \n    open var download: String \n    open var ping: String \n    open var rel: String \n    open val
relList: DOMTokenList \n    open var hreflang: String \n    open var type: String \n    open var text: String \n
    open var referrerPolicy: String \n    open var coords: String \n    open var charset: String \n    open var name:
String \n    open var rev: String \n    open var shape: String \n \n    companion object { \n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin \n * \n public
external abstract class HTMLDataElement : HTMLElement { \n    open var value: String \n \n    companion object { \n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin \n * \n public
external abstract class HTMLTimeElement : HTMLElement { \n    open var dateTime: String \n \n    companion
object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val

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DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n \*/\npublic external abstract class HTMLSpanElement : HTMLInputElement {\n companion object {\n val

ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val

DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n \*/\npublic external abstract class HTMLBRElement : HTMLInputElement {\n open var clear: String\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n \*/\npublic external interface HTMLHyperlinkElementUtils {\n var href: String\n val origin: String\n var protocol: String\n var username: String\n var password: String\n var host: String\n var hostname: String\n var port: String\n var pathname: String\n var search: String\n var hash: String}\n/n/\*\*\n \* Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n \*/\npublic external abstract class HTMLModElement : HTMLInputElement {\n open var cite: String\n open var dateTime: String\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val

DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n/n/\*\*\n \* Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n \*/\npublic external abstract class HTMLPictureElement : HTMLInputElement {\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val

DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript  
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n  
\*/\npublic external abstract class HTMLSourceElement : HTMLElement {\n open var src: String\n open var  
type: String\n open var srcset: String\n open var sizes: String\n open var media: String\n\n companion object  
{\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n  
val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n  
val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val  
COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n  
val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript  
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n  
\*/\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement,  
TexImageSource {\n open var alt: String\n open var src: String\n open var srcset: String\n open var sizes:  
String\n open var crossOrigin: String?\n open var useMap: String\n open var  
isMap: Boolean\n open var width: Int\n open var height: Int\n open val naturalWidth: Int\n open val  
naturalHeight: Int\n open val complete: Boolean\n open val currentSrc: String\n open var referrerPolicy:  
String\n open var name: String\n open var lowsrc: String\n open var align: String\n open var hspace: Int\n  
open var vspace: Int\n open var longDesc: String\n open var border: String\n open val x: Int\n open val y:  
Int\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val  
TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE:  
Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val  
COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n  
val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n  
val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n  
val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY:  
Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes  
the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to  
Kotlin\n \*/\npublic external abstract class HTMLIFrameElement : HTMLElement {\n open var src: String\n  
open var srcdoc: String\n open var name: String\n open val sandbox: DOMTokenList\n open var  
allowFullscreen: Boolean\n open var allowUserMedia: Boolean\n open var width: String\n open var height:  
String\n open var referrerPolicy: String\n open val contentDocument: Document?\n open val contentWindow:  
Window?\n open var align: String\n open var scrolling: String\n open var frameBorder: String\n open var  
longDesc: String\n open var marginHeight: String\n open var  
marginWidth: String\n fun getSVGDocument(): Document?\n\n companion object {\n val  
ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val  
CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE:  
Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin \n
*\npublic external abstract
class HTMLEmbedElement : HTMLElement { \n    open var src: String \n    open var type: String \n    open var
width: String \n    open var height: String \n    open var align: String \n    open var name: String \n    fun
getSVGDocument(): Document? \n \n    companion object { \n        val ELEMENT_NODE: Short \n        val
ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val
ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin \n
*\npublic external abstract class HTMLObjectElement : HTMLElement { \n    open var data: String \n    open var
type: String \n    open var typeMustMatch: Boolean \n    open var name: String \n    open var useMap: String \n    open
val form: HTMLFormElement? \n    open var width: String \n    open var height: String \n    open val
contentDocument: Document? \n    open val contentWindow: Window? \n    open val willValidate: Boolean \n    open
val validity: ValidityState \n    open val validationMessage: String \n    open var align: String \n    open var archive:
String \n    open var code: String \n    open var declare: Boolean \n    open var hspace: Int \n    open var standby:
String \n    open var vspace: Int \n    open var codeBase: String \n    open var codeType: String \n    open var border:
String \n    fun getSVGDocument(): Document? \n    fun checkValidity():
Boolean \n    fun reportValidity(): Boolean \n    fun setCustomValidity(error: String) \n \n    companion object { \n
        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val
CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE:
Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to
Kotlin \n *\npublic external abstract class HTMLParamElement : HTMLElement { \n    open var name: String \n
open var value: String \n    open var type: String \n    open var valueType: String \n \n    companion object { \n
        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE: Short \n        val TEXT_NODE: Short \n        val
CDATA_SECTION_NODE: Short \n        val ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE:
Short \n        val PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n

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val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to
Kotlin\n */\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource,
TexImageSource {\n    open var width: Int\n    open var height: Int\n    open val videoWidth: Int\n    open val
videoHeight: Int\n    open var poster: String\n    open var playsInline: Boolean\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val
HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n
        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n
*/\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n
        val HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n
*/\npublic external abstract class HTMLTrackElement : HTMLMediaElement {\n    open var kind: String\n    open var src: String\n    open var srclang: String\n    open var label: String\n    open var
default: Boolean\n    open val readyState: Short\n    open val track: TextTrack\n    companion object {\n        val
NONE: Short\n        val LOADING: Short\n        val LOADED: Short\n        val ERROR: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to

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Kotlin\n */\npublic external abstract class HTMLMediaElement : HTMLInputElement {\n    open val error:
MediaError?\n    open var src: String\n    open var srcObject: MediaProvider?\n    open val currentSrc: String\n
open val crossOrigin: String?\n    open val networkState: Short\n    open val preload: String\n    open val buffered:
TimeRanges\n    open val readyState: Short\n    open val seeking: Boolean\n    open var currentTime: Double\n
open val duration: Double\n    open val paused: Boolean\n    open var defaultPlaybackRate: Double\n    open var
playbackRate: Double\n    open val played: TimeRanges\n    open val seekable: TimeRanges\n    open val ended:
Boolean\n    open var autoplay: Boolean\n    open var loop: Boolean\n    open var controls: Boolean\n    open var
volume:
Double\n    open var muted: Boolean\n    open var defaultMuted: Boolean\n    open val audioTracks:
AudioTrackList\n    open val videoTracks: VideoTrackList\n    open val textTracks: TextTrackList\n    open val
mediaKeys: MediaKeys?\n    open var onencrypted: ((Event) -> dynamic)?\n    open var onwaitingforkey: ((Event) -
> dynamic)?\n    fun load()\n    fun canPlayType(type: String): CanPlayTypeResult\n    fun fastSeek(time: Double)\n
    fun getStartDate(): dynamic\n    fun play(): Promise<Unit>\n    fun pause()\n    fun addTextTrack(kind:
TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\n    fun
setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA:
Short\n        val HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract
class MediaError {\n    open val code: Short\n\n    companion object {\n        val MEDIA_ERR_ABORTED: Short\n        val MEDIA_ERR_NETWORK: Short\n
val MEDIA_ERR_DECODE: Short\n        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n    }\n}\n\n/**\n *
Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to
Kotlin\n */\npublic external abstract class AudioTrackList : EventTarget {\n    open val length: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var
onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
AudioTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index:
Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack
{\n    open val id: String\n    open val kind: String\n    open val label: String\n    open val language: String\n    open
var enabled: Boolean\n    open val sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript
[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external
abstract class VideoTrackList : EventTarget {\n    open val length: Int\n    open val selectedIndex: Int\n    open var
onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var
onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String):
VideoTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index:
Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n *\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack
{\n open val id: String\n open val kind: String\n open val label: String\n open val language: String\n open
var selected: Boolean\n open val sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList :
EventTarget {\n open val length: Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack:
((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id:
String): TextTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int):
TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n *\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n open val kind: TextTrackKind\n
open val label: String\n open val language:
String\n open val id: String\n open val inBandMetadataTrackDispatchType: String\n open var mode:
TextTrackMode\n open val cues: TextTrackCueList?\n open val activeCues: TextTrackCueList?\n open var
oncuechange: ((Event) -> dynamic)?\n open val sourceBuffer: SourceBuffer?\n fun addCue(cue:
TextTrackCue)\n fun removeCue(cue: TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n
open val length: Int\n fun getCueById(id: String):
TextTrackCue?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index:
Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n *\npublic external
abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var
startTime: Double\n open var endTime: Double\n open
var pauseOnExit: Boolean\n open var onenter: ((Event) -> dynamic)?\n open var onexit: ((Event) ->
dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n *\npublic external abstract
class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int):
Double}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n *\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface TrackEventInit : EventInit {\n var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n val o = js("{ }")\n o["track"] = track\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n *\npublic external abstract class HTMLElement : HTMLDivElement {\n open var name: String\n open val
areas: HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE:

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Short\n      val COMMENT_NODE: Short\n      val DOCUMENT_NODE: Short\n      val
DOCUMENT_TYPE_NODE: Short\n      val DOCUMENT_FRAGMENT_NODE: Short\n      val
NOTATION_NODE: Short\n      val DOCUMENT_POSITION_DISCONNECTED: Short\n      val
DOCUMENT_POSITION_PRECEDING: Short\n      val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n      val DOCUMENT_POSITION_CONTAINED_BY:
Short\n      val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes
the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to
Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n
open var alt: String\n    open var coords: String\n    open var shape: String\n    open var target: String\n    open var
download: String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n    open
var referrerPolicy:
String\n    open var noHref: Boolean\n\n    companion object {\n      val ELEMENT_NODE: Short\n      val
ATTRIBUTE_NODE: Short\n      val TEXT_NODE: Short\n      val CDATA_SECTION_NODE: Short\n      val
ENTITY_REFERENCE_NODE: Short\n      val ENTITY_NODE: Short\n      val
PROCESSING_INSTRUCTION_NODE: Short\n      val COMMENT_NODE: Short\n      val
DOCUMENT_NODE: Short\n      val DOCUMENT_TYPE_NODE: Short\n      val
DOCUMENT_FRAGMENT_NODE: Short\n      val NOTATION_NODE: Short\n      val
DOCUMENT_POSITION_DISCONNECTED: Short\n      val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n      val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n      val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic
external abstract class HTMLTableElement
: HTMLElement {\n    open var caption: HTMLTableCaptionElement?\n    open var tHead:
HTMLTableSectionElement?\n    open var tFoot: HTMLTableSectionElement?\n    open val tBodies:
HTMLCollection\n    open val rows: HTMLCollection\n    open var align: String\n    open var border: String\n
open var frame: String\n    open var rules: String\n    open var summary: String\n    open var width: String\n    open
var bgColor: String\n    open var cellPadding: String\n    open var cellSpacing: String\n    fun createCaption():
HTMLTableCaptionElement\n    fun deleteCaption()\n    fun createTHead(): HTMLTableSectionElement\n    fun
deleteTHead()\n    fun createTFoot(): HTMLTableSectionElement\n    fun deleteTFoot()\n    fun createTBody():
HTMLTableSectionElement\n    fun insertRow(index: Int = definedExternally): HTMLTableRowElement\n    fun
deleteRow(index: Int)\n\n    companion object {\n      val ELEMENT_NODE: Short\n      val
ATTRIBUTE_NODE: Short\n      val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n      val ENTITY_REFERENCE_NODE: Short\n      val
ENTITY_NODE: Short\n      val PROCESSING_INSTRUCTION_NODE: Short\n      val COMMENT_NODE:
Short\n      val DOCUMENT_NODE: Short\n      val DOCUMENT_TYPE_NODE: Short\n      val
DOCUMENT_FRAGMENT_NODE: Short\n      val NOTATION_NODE: Short\n      val
DOCUMENT_POSITION_DISCONNECTED: Short\n      val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n      val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n      val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n    open var align:
String\n\n    companion object {\n      val ELEMENT_NODE: Short\n      val ATTRIBUTE_NODE:
Short\n      val TEXT_NODE: Short\n      val CDATA_SECTION_NODE: Short\n      val
ENTITY_REFERENCE_NODE: Short\n      val ENTITY_NODE: Short\n      val
PROCESSING_INSTRUCTION_NODE: Short\n      val COMMENT_NODE: Short\n      val
DOCUMENT_NODE: Short\n      val DOCUMENT_TYPE_NODE: Short\n      val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n
*\npublic external abstract class HTMLTableColElement : HTMLElement {\n    open var span: Int\n    open var
align: String\n    open var ch: String\n    open var chOff:
String\n    open var vAlign: String\n    open var width: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n *\npublic
external abstract class HTMLTableSectionElement : HTMLElement {\n    open val rows: HTMLCollection\n
open var align: String\n    open var ch: String\n    open var chOff: String\n    open var vAlign: String\n
fun
insertRow(index: Int = definedExternally): HTMLTableSectionElement\n    fun deleteRow(index: Int)\n\n
companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes
the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
*\npublic external abstract class HTMLTableRowElement : HTMLElement {\n    open val rowIndex: Int\n    open
val sectionRowIndex: Int\n    open val cells: HTMLCollection\n    open var align: String\n    open var ch: String\n
open var chOff: String\n    open var vAlign: String\n    open var bgColor: String\n    fun insertCell(index: Int =
definedExternally): HTMLTableSectionElement\n    fun deleteCell(index: Int)\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes
the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement)

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to Kotlin\n */\npublic external abstract class HTMLTableCellElement : HTMLElement {\n  open var colSpan:
Int\n  open var rowSpan: Int\n  open var headers: String\n  open val cellIndex: Int\n  open var scope: String\n
open var abbr: String\n  open var align: String\n  open var axis: String\n  open var height: String\n  open var
width: String\n  open var ch: String\n  open var chOff: String\n  open var noWrap: Boolean\n  open
var vAlign: String\n  open var bgColor: String\n\n  companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\npublic
external abstract class HTMLFormElement
: HTMLElement {\n  open var acceptCharset: String\n  open var action: String\n  open var autocomplete:
String\n  open var enctype: String\n  open var encoding: String\n  open var method: String\n  open var name:
String\n  open var noValidate: Boolean\n  open var target: String\n  open val elements:
HTMLFormControlsCollection\n  open val length: Int\n  fun submit()\n  fun reset()\n  fun checkValidity():
Boolean\n  fun reportValidity(): Boolean\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED:
Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val
DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes
the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to
Kotlin\n */\npublic external abstract class HTMLLabelElement : HTMLElement {\n  open val form:
HTMLFormElement?\n  open var htmlFor: String\n  open val control: HTMLElement?\n\n  companion object
{\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}
/**
 * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin
 */
public external abstract class HTMLInputElement : HTMLElement {
    open var accept: String
    open var alt: String
    open
    var autocomplete: String
    open var autofocus: Boolean
    open var defaultChecked: Boolean
    open var checked: Boolean
    open var dirName: String
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open val files: FileList?
    open var formAction: String
    open var formEnctype: String
    open var formMethod: String
    open var formNoValidate: Boolean
    open var formTarget: String
    open var height: Int
    open var indeterminate: Boolean
    open var inputMode: String
    open val list: HTMLElement?
    open var max: String
    open var maxLength: Int
    open var min: String
    open var minLength: Int
    open var multiple: Boolean
    open var name: String
    open var pattern: String
    open var placeholder: String
    open var readOnly: Boolean
    open var required: Boolean
    open var size: Int
    open var src: String
    open var step: String
    open var type: String
    open var defaultValue: String
    open var value: String
    open var valueAsDate: dynamic
    open var valueAsNumber: Double
    open var width: Int
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open val labels: NodeList
    open var selectionStart: Int?
    open var selectionEnd: Int?
    open var selectionDirection: String?
    open var align: String
    open var useMap: String
    fun stepUp(n: Int = definedExternally)
    fun stepDown(n: Int = definedExternally)
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)
    fun select()
    fun setRangeText(replacement: String)
    fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)
    fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}
/**
 * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin
 */
public external abstract class HTMLButtonElement : HTMLElement {
    open var autofocus: Boolean
    open var disabled: Boolean
    open val form: HTMLFormElement?
    open var formAction: String
    open var formEnctype: String
    open var formMethod: String
    open var formNoValidate: Boolean
    open var formTarget: String
    open var name: String
    open var type: String
    open var value: String
    open var menu: HTMLMenuElement?
    open val willValidate: Boolean
    open val validity: ValidityState
    open val validationMessage: String
    open val labels: NodeList
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean
    fun setCustomValidity(error: String)
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short

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val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the
JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to
Kotlin\n *\npublic external abstract class HTMLSelectElement : HTMLInputElement, ItemArrayLike<Element> {\n
open var autocomplete: String\n  open var autofocus: Boolean\n  open var disabled: Boolean\n  open val form:
HTMLFormElement?\n  open var multiple: Boolean\n  open var name: String\n  open var required: Boolean\n
open var size: Int\n  open val type: String\n  open val options: HTMLOptionsCollection\n  override var length:
Int\n  open val selectedOptions: HTMLCollection\n  open var selectedIndex: Int\n  open var value: String\n
  open val willValidate: Boolean\n  open val validity: ValidityState\n  open val validationMessage: String\n
open val labels: NodeList\n  fun namedItem(name: String): HTMLOptionElement?\n  fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n  fun
remove(index: Int)\n  fun checkValidity(): Boolean\n  fun reportValidity(): Boolean\n  fun
setCustomValidity(error: String)\n  override fun item(index: Int): Element?\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
  }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
*\npublic external abstract class HTMLDataListElement : HTMLInputElement {\n  open val options:
HTMLCollection\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n
    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*\npublic external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n  open var disabled: Boolean\n  open var label:
String\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:

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Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*/\n\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement
{\n    open var disabled: Boolean\n    open val form: HTMLFormElement?\n    open var label: String\n    open var
defaultSelected: Boolean\n    open var selected: Boolean\n    open var value: String\n    open var text: String\n
open val index: Int\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to
Kotlin\n */\n\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n    open var autocomplete:
String\n    open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled:
Boolean\n    open val form: HTMLFormElement?\n    open var inputMode: String\n    open var maxLength: Int\n
open var minLength: Int\n    open var name: String\n    open var placeholder: String\n    open var readOnly:
Boolean\n    open var required: Boolean\n    open var rows: Int\n    open var wrap: String\n    open val type: String\n
open var defaultValue: String\n    open var value: String\n    open val textLength: Int\n    open val willValidate:
Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open val labels: NodeList\n

    open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var selectionDirection: String?\n    fun
checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun setCustomValidity(error: String)\n    fun
select()\n    fun setRangeText(replacement: String)\n    fun setRangeText(replacement: String, start: Int, end: Int,
selectionMode: SelectionMode = definedExternally)\n    fun setSelectionRange(start: Int, end: Int, direction: String
= definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*/\n\npublic external abstract class HTMLKeygenElement : HTMLInputElement {\n    open var autofocus: Boolean\n

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n
    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val
NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to
Kotlin\n */\npublic external abstract class HTMLFieldSetElement : HTMLElement {\n    open var disabled:
Boolean\n    open val form: HTMLFormElement?\n    open var name: String\n    open val type: String\n    open val
elements: HTMLCollection\n    open val willValidate: Boolean\n    open val validity: ValidityState\n    open val
validationMessage: String\n    fun checkValidity(): Boolean\n    fun reportValidity(): Boolean\n    fun
setCustomValidity(error:
String)\n}\n\n companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n
*/\npublic external abstract class HTMLLegendElement
: HTMLElement {\n    open val form: HTMLFormElement?\n    open var align: String\n}\n\n companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic
external abstract class ValidityState {\n    open val valueMissing: Boolean\n    open val typeMismatch: Boolean\n
open val patternMismatch: Boolean\n    open val tooLong: Boolean\n    open val tooShort: Boolean\n    open val
rangeUnderflow: Boolean\n    open val rangeOverflow: Boolean\n    open val stepMismatch: Boolean\n    open val
badInput: Boolean\n    open val customError: Boolean\n    open val valid: Boolean\n}\n}\n\n/**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n */\npublic external abstract class HTMLDetailsElement : HTMLElement {\n    open var open: Boolean\n}\n\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE:
Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val

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DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class HTMLMenuElement : HTMLElement {\n    open var type: String\n    open var label: String\n    open
var compact: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE:
Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class HTMLMenuItemElement : HTMLElement {\n    open var type: String\n    open var label: String\n
open var icon: String\n    open var disabled: Boolean\n    open var checked: Boolean\n    open var radiogroup:
String\n    open var default: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE:
Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n    open val
relatedTarget: EventTarget?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
RelatedEventInit : EventInit {\n    var relatedTarget: EventTarget? /* = null */\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic
inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): RelatedEventInit {\n    val o = js("{}")\n    o["relatedTarget"] =
relatedTarget\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\n\npublic external abstract class HTMLDialogElement : HTMLElement {\n    open var open: Boolean\n    open var
returnValue: String\n    fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n    fun
showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n    fun close(returnValue: String =
definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n *\npublic
external abstract class HTMLScriptElement : HTMLInputElement, HTMLOrSVGScriptElement {\n    open var src:
String\n    open var type: String\n    open var charset: String\n    open var async: Boolean\n    open var defer:
Boolean\n    open var crossOrigin: String?\n    open var text: String\n    open var nonce: String\n    open var event:
String\n    open var htmlFor: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement)
to Kotlin\n *\npublic external abstract class HTMLTemplateElement : HTMLInputElement {\n    open val content:
DocumentFragment\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n *\npublic
external abstract class HTMLSlotElement : HTMLInputElement {\n    open var name: String\n    fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n    companion object {\n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten:
Boolean? = false): AssignedNodesOptions {\n    val o = js(\"({})\")\n    o[\"flatten\"] = flatten\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n
*\npublic external abstract class HTMLCanvasElement : HTMLInputElement, CanvasImageSource, TexImageSource
{\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg arguments: Any?):

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RenderingContext? \n fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally):
String \n fun toBlob(_callback: (Blob?) -> Unit,
type: String = definedExternally, quality: Any? = definedExternally) \n \n companion object { \n val
ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val
CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE:
Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n public external interface
CanvasRenderingContext2DSettings { \n var alpha: Boolean? /* = true */ \n get() = definedExternally \n
set(value) = definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings { \n val o =
js("{}") \n o["alpha"] = alpha \n return o \n} \n \n /** \n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin \n * \n public external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext { \n
open val canvas: HTMLCanvasElement \n} \n \n public external interface CanvasState { \n fun save() \n fun
restore() \n} \n \n public external interface CanvasTransform
{ \n fun scale(x: Double, y: Double) \n fun rotate(angle: Double) \n fun translate(x: Double, y: Double) \n fun
transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double) \n fun getTransform(): DOMMatrix \n
fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double) \n fun
setTransform(transform: dynamic = definedExternally) \n fun resetTransform() \n} \n \n public external interface
CanvasCompositing { \n var globalAlpha: Double \n var globalCompositeOperation: String \n} \n \n public external
interface CanvasImageSmoothing { \n var imageSmoothingEnabled: Boolean \n var imageSmoothingQuality:
ImageSmoothingQuality \n} \n \n public external interface CanvasFillStrokeStyles { \n var strokeStyle: dynamic \n
get() = definedExternally \n set(value) = definedExternally \n var fillStyle: dynamic \n get() =
definedExternally \n set(value) = definedExternally \n fun createLinearGradient(x0: Double, y0: Double,
x1: Double, y1: Double): CanvasGradient \n fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1:
Double, y1: Double, r1: Double): CanvasGradient \n fun createPattern(image: CanvasImageSource, repetition:
String): CanvasPattern? \n} \n \n public external interface CanvasShadowStyles { \n var shadowOffsetX: Double \n
var shadowOffsetY: Double \n var shadowBlur: Double \n var shadowColor: String \n} \n \n public external
interface CanvasFilters { \n var filter: String \n} \n \n public external interface CanvasRect { \n fun clearRect(x:
Double, y: Double, w: Double, h: Double) \n fun fillRect(x: Double, y: Double, w: Double, h: Double) \n fun
strokeRect(x: Double, y: Double, w: Double, h: Double) \n} \n \n public external interface CanvasDrawPath { \n fun
beginPath() \n fun fill(fillRule: CanvasFillRule = definedExternally) \n fun fill(path: Path2D, fillRule:
CanvasFillRule = definedExternally) \n fun stroke() \n fun stroke(path: Path2D) \n fun clip(fillRule:
CanvasFillRule
= definedExternally) \n fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally) \n fun resetClip() \n
fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean \n fun
isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean \n fun
isPointInStroke(x: Double, y: Double): Boolean \n fun isPointInStroke(path: Path2D, x: Double, y: Double):
Boolean \n} \n \n public external interface CanvasUserInterface { \n fun drawFocusIfNeeded(element: Element) \n

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fun drawFocusIfNeeded(path: Path2D, element: Element)\n fun scrollPathIntoView()\n fun
scrollPathIntoView(path: Path2D)\n}\n\npublic external interface CanvasText {\n fun fillText(text: String, x:
Double, y: Double, maxWidth: Double = definedExternally)\n fun strokeText(text: String, x: Double, y: Double,
maxWidth: Double = definedExternally)\n fun measureText(text: String): TextMetrics\n}\n\npublic external
interface CanvasDrawImage {\n fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)\n fun
drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double,
dw: Double, dh: Double)\n}\n\npublic external interface CanvasHitRegion {\n fun addHitRegion(options:
HitRegionOptions = definedExternally)\n fun removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic
external interface CanvasImageData {\n fun createImageData(sw: Double, sh: Double): ImageData\n fun
createImageData(imagedata: ImageData): ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh:
Double): ImageData\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun
putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double,
dirtyHeight: Double)\n}\n\npublic external interface
CanvasPathDrawingStyles {\n var lineWidth: Double\n var lineCap: CanvasLineCap\n var lineJoin:
CanvasLineJoin\n var miterLimit: Double\n var lineDashOffset: Double\n fun setLineDash(segments:
Array<Double>)\n fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles
{\n var font: String\n var textAlign: CanvasTextAlign\n var textBaseline: CanvasTextBaseline\n var
direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n fun closePath()\n fun moveTo(x:
Double, y: Double)\n fun lineTo(x: Double, y: Double)\n fun quadraticCurveTo(cpx: Double, cpy: Double, x:
Double, y: Double)\n fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y:
Double)\n fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n fun arcTo(x1: Double,
y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n fun rect(x: Double, y:
Double, w: Double, h: Double)\n fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle:
Double, anticlockwise: Boolean = definedExternally)\n fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic external
abstract class CanvasGradient {\n fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the
JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n *
Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\n\npublic external abstract class TextMetrics {\n open val width:
Double\n open val actualBoundingBoxLeft: Double\n open val actualBoundingBoxRight: Double\n open val
fontBoundingBoxAscent: Double\n open val fontBoundingBoxDescent: Double\n open val
actualBoundingBoxAscent: Double\n open val actualBoundingBoxDescent: Double\n open val
emHeightAscent: Double\n open val emHeightDescent: Double\n open val hangingBaseline: Double\n open
val alphabeticBaseline: Double\n open val ideographicBaseline: Double\n}\n\npublic external interface
HitRegionOptions {\n var path: Path2D? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\n get() =
definedExternally\n set(value) = definedExternally\n var id: String? /* = "" */\n get() =
definedExternally\n set(value) = definedExternally\n var parentId: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n
var cursor: String? /* = "inherit" */\n get() = definedExternally\n set(value) = definedExternally\n var
control: Element? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var label:
String? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var role: String? /* =
null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

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\ "INVISIBLE_MEMBER" )\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? =
null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = "", parentID: String? = null, cursor:
String? = "inherit", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions { \n val
o = js("{}")\n o["path"] = path\n o["fillRule"] = fillRule\n o["id"] = id\n o["parentID"] = parentID\n
o["cursor"] = cursor\n o["control"]
= control\n o["label"] = label\n o["role"] = role\n return o}\n\n/**\n * Exposes the JavaScript
[ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n *\npublic external open class
ImageData : ImageBitmapSource, TexImageSource {\n constructor(sw: Int, sh: Int)\n constructor(data:
Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n open val width: Int\n open val height: Int\n open
val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n *\npublic external open class
Path2D() : CanvasPath {\n constructor(path: Path2D)\n constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n constructor(d: String)\n fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n override fun closePath()\n override fun moveTo(x: Double, y: Double)\n override fun
lineTo(x: Double, y: Double)\n override
fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n override fun bezierCurveTo(cp1x:
Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n override fun arcTo(x1: Double, y1:
Double, x2: Double, y2: Double, radius: Double)\n override fun arcTo(x1: Double, y1: Double, x2: Double, y2:
Double, radiusX: Double, radiusY: Double, rotation: Double)\n override fun rect(x: Double, y: Double, w: Double,
h: Double)\n override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */) \n override fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* =
definedExternally */) \n}\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n *\npublic external abstract class ImageBitmapRenderingContext
{\n open val canvas: HTMLCanvasElement\n fun transferFromImageBitmap(bitmap:
ImageBitmap?) \n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n var alpha: Boolean? /*
= true */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n val o
= js("{}")\n o["alpha"] = alpha\n return o}\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n
*\npublic external abstract class CustomElementRegistry {\n fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n fun get(name: String): Any?\n fun
whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface
ElementDefinitionOptions {\n var extends: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends:
String? = undefined): ElementDefinitionOptions {\n val o = js("{}")\n o["extends"] = extends\n return
o}\n\npublic external interface ElementContentEditable {\n var contentEditable: String\n val
isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n *\npublic external
abstract class DataTransfer {\n open var dropEffect: String\n open var effectAllowed: String\n open val items:
DataTransferItemList\n open val types: Array<out String>\n open val files: FileList\n fun
setDragImage(image: Element, x: Int, y: Int)\n fun getData(format: String): String\n fun setData(format: String,
data: String)\n fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n *\npublic

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external abstract class DataTransferItemList {\n  open val length: Int\n  fun add(data: String, type: String):
DataTransferItem?\n  fun add(data: File): DataTransferItem?\n  fun remove(index: Int)\n  fun
clear()\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic
external abstract class DataTransferItem {\n  open val kind: String\n  open val type: String\n  fun
getAsString(_callback: ((String) -> Unit)?)\n  fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent)
to Kotlin\n */\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit =
definedExternally) : MouseEvent {\n  open val dataTransfer: DataTransfer?\n\n  companion object {\n    val
NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface DragEventInit : MouseEventInit {\n  var
dataTransfer: DataTransfer? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? =
false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\n  val o =
js("{}")\n  o["dataTransfer"] = dataTransfer\n  o["screenX"] = screenX\n  o["screenY"] = screenY\n
o["clientX"] = clientX\n  o["clientY"] = clientY\n  o["button"] = button\n  o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n  o["region"] = region\n  o["ctrlKey"] = ctrlKey\n  o["shiftKey"] =
shiftKey\n  o["altKey"] = altKey\n  o["metaKey"] = metaKey\n  o["modifierAltGraph"] =
modifierAltGraph\n
  o["modifierCapsLock"] = modifierCapsLock\n  o["modifierFn"] = modifierFn\n  o["modifierFnLock"] =
modifierFnLock\n  o["modifierHyper"] = modifierHyper\n  o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n  o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n  o["modifierSymbolLock"] = modifierSymbolLock\n  o["view"] =
view\n  o["detail"] = detail\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n */\npublic external abstract class
Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope,
WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n  open
val window: Window\n  open val self: Window\n  open val document: Document\n
  open var name: String\n  open val location: Location\n  open val history: History\n  open val customElements:
CustomElementRegistry\n  open val locationbar: BarProp\n  open val menubar: BarProp\n  open val
personalbar: BarProp\n  open val scrollbars: BarProp\n  open val statusbar: BarProp\n  open val toolbar:
BarProp\n  open var status: String\n  open val closed: Boolean\n  open val frames: Window\n  open val length:
Int\n  open val top: Window\n  open var opener: Any?\n  open val parent: Window\n  open val frameElement:
Element?\n  open val navigator: Navigator\n  open val applicationCache: ApplicationCache\n  open val external:
External\n  open val screen: Screen\n  open val innerWidth: Int\n  open val innerHeight: Int\n  open val scrollX:
Double\n  open val pageXOffset: Double\n  open val scrollY: Double\n  open val pageYOffset: Double\n  open
val screenX: Int\n  open val screenY: Int\n  open val outerWidth: Int\n  open val

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outerHeight: Int\n  open val devicePixelRatio: Double\n  fun close()\n  fun stop()\n  fun focus()\n  fun blur()\n  fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n  fun alert()\n  fun alert(message: String)\n  fun confirm(message: String = definedExternally):
Boolean\n  fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n  fun
print()\n  fun requestAnimationFrame(callback: (Double) -> Unit): Int\n  fun cancelAnimationFrame(handle:
Int)\n  fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n  fun releaseEvents()\n  fun matchMedia(query: String): MediaQueryList\n  fun moveTo(x:
Int, y: Int)\n  fun moveBy(x: Int, y: Int)\n  fun resizeTo(x: Int, y: Int)\n  fun resizeBy(x: Int, y: Int)\n  fun
scroll(options: ScrollToOptions = definedExternally)\n  fun scroll(x:
Double, y: Double)\n  fun scrollTo(options: ScrollToOptions = definedExternally)\n  fun scrollTo(x: Double, y:
Double)\n  fun scrollBy(options: ScrollToOptions = definedExternally)\n  fun scrollBy(x: Double, y: Double)\n
fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n  open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic
external abstract class History {\n  open val length: Int\n  open var scrollRestoration: ScrollRestoration\n  open
val state: Any?\n  fun go(delta: Int = definedExternally)\n  fun back()\n  fun forward()\n  fun pushState(data:
Any?, title: String, url: String? = definedExternally)\n
  fun replaceState(data: Any?, title: String, url: String? = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class
Location {\n  open var href: String\n  open val origin: String\n  open var protocol: String\n  open var host:
String\n  open var hostname: String\n  open var port: String\n  open var pathname: String\n  open var search:
String\n  open var hash: String\n  open val ancestorOrigins: Array<out String>\n  fun assign(url: String)\n  fun
replace(url: String)\n  fun reload()\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n  open val
state: Any?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n
    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
PopStateEventInit : EventInit {\n  var state: Any? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n  val o
= js(\"({})\")\n  o[\"state\"] = state\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {\n  open val oldURL: String\n  open val newURL: String\n\n  companion object
{\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n  var
oldURL: String? /* = \"\" */\n  get() = definedExternally\n  set(value) = definedExternally\n  var newURL:
String? /* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL:
String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): HashChangeEventInit {\n  val o = js(\"({})\")\n  o[\"oldURL\"] = oldURL\n  o[\"newURL\"]
= newURL\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript

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[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n \*^public external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\n open val persisted: Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n var persisted: Boolean? /\* = false \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\n val o = js(\"({})\")\n o[\"persisted\"] = persisted\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n \*^public external open class BeforeUnloadEvent : Event {\n var returnValue: String\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n open val status: Short\n open var onchecking: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onnoupdate: ((Event) -> dynamic)?\n open var ondownloading: ((Event) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onupdateready: ((Event) -> dynamic)?\n open var oncached: ((Event) -> dynamic)?\n open var onobsolete: ((Event) -> dynamic)?\n fun update()\n fun abort()\n fun swapCache()\n\n companion object {\n val UNCACHED: Short\n val IDLE: Short\n val CHECKING: Short\n val DOWNLOADING: Short\n val UPDATEREADY: Short\n val OBSOLETE: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n \*^public external interface NavigatorOnLine {\n val onLine: Boolean\n}\n\n/\*\*\n \* Exposes the JavaScript

[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n \*^public external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n open val message: String\n open val filename: String\n open val lineno: Int\n open val colno: Int\n open val error: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external interface ErrorEventInit : EventInit {\n var message: String? /\* = \"\" \*/\n get() = definedExternally\n set(value) = definedExternally\n var filename: String? /\* = \"\" \*/\n get() = definedExternally\n set(value) = definedExternally\n var lineno: Int? /\* = 0 \*/\n get() = definedExternally\n set(value) = definedExternally\n var colno: Int? /\* = 0 \*/\n get() = definedExternally\n set(value) = definedExternally\n var error: Any? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\", \"INVISIBLE\_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n val o = js(\"({})\")\n o[\"message\"] = message\n o[\"filename\"] = filename\n o[\"lineno\"] = lineno\n o[\"colno\"] = colno\n o[\"error\"] = error\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/\*\*\n \* Exposes the JavaScript

[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n \*^public external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\n open val promise: Promise<Any?>\n open val reason: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING\_PHASE: Short\n val AT\_TARGET: Short\n val BUBBLING\_PHASE: Short\n }\n}\n\npublic external interface PromiseRejectionEventInit : EventInit {\n var promise: Promise<Any?>?\n var reason: Any?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE\_REFERENCE\",

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\@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean?
= false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\n    val o =
js("{ }")\n    o["promise"] = promise\n    o["reason"] = reason\n    o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var onblur: ((FocusEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncancel: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncanplay: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncanplaythrough: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onchange: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onclick: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onclose: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var oncontextmenu: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var oncuechange: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondblclick: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondrag: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragend: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragenter: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragexit: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragleave: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragover: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondragstart: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondrop: ((DragEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var ondurationchange: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onemptied: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onended: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onfocus: ((FocusEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var oninput: ((InputEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var oninvalid: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onkeydown: ((KeyboardEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onkeypress: ((KeyboardEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onkeyup: ((KeyboardEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onloadeddata: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onloadedmetadata: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onloadend: ((Event) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onloadstart: ((ProgressEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onmousedown: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onmouseenter: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onmouseleave: ((MouseEvent) -> dynamic)?\n
        get() = definedExternally\n        set(value) = definedExternally\n    var onmousemove: ((MouseEvent)

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-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onmouseout:
((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onmouseover: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onmouseup: ((MouseEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onwheel: ((WheelEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpause: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onplay: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onplaying: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onprogress: ((ProgressEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onratechange: ((Event) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onreset: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onresize: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onscroll: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeked: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeking: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onselect: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onshow: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onstalled:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onsubmit:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onsuspend:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var ontimeupdate:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var ontoggle:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onvolumechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onwaiting: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerdown: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointermove:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointerup: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpointerleave: ((PointerEvent)
-> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n**\n * Exposes the
JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to
Kotlin\n * \npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onhashchange:
((HashChangeEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onlanguagechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() =

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definedExternally\n    set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled:
((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onstorage:
((StorageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n    get()
= definedExternally\n    set(value) = definedExternally\n    var onunload: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\npublic external interface
DocumentAndElementEventHandlers {\n    var oncopy: ((ClipboardEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var oncut: ((ClipboardEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpaste: ((ClipboardEvent) -> dynamic)?\n    get()
= definedExternally\n    set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n */\n\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches:
CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler:
dynamic, timeout: Int =
definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int = definedExternally)\n    fun
setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun
clearInterval(handle: Int = definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource, options:
ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image:
ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally):
Promise<ImageBitmap>\n    fun fetch(input: dynamic, init: RequestInit = definedExternally):
Promise<Response>\n}\n\n/**\n * Exposes the JavaScript
[Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\n\npublic external abstract class
Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies,
NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open val mediaDevices:
MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker: ServiceWorkerContainer\n    fun
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n    fun getUserMedia(constraints:
MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n    fun
vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\n\npublic external interface
NavigatorID {\n    val appCodeName: String\n    val appName: String\n    val appVersion: String\n    val platform:
String\n    val product: String\n    val productSub: String\n    val userAgent: String\n    val vendor: String\n    val
vendorSub: String\n    val oscpu: String\n    fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage)
to Kotlin\n */\n\npublic external interface NavigatorLanguage {\n    val language: String\n    val languages:
Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n    fun registerProtocolHandler(scheme:
String, url: String, title: String)\n    fun registerContentHandler(mimeType: String, url: String, title: String)\n    fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n    fun isContentHandlerRegistered(mimeType:
String, url: String): String\n    fun unregisterProtocolHandler(scheme: String, url: String)\n    fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n    val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\n\npublic
external interface NavigatorPlugins {\n    val plugins: PluginArray\n    val mimeTypes: MimeTypeError\n    fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes
the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\n\npublic
external abstract class PluginArray : ItemArrayLike<Plugin> {\n    fun refresh(reload: Boolean =

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definedExternally)\n  override fun item(index: Int): Plugin?\n  fun namedItem(name: String):
Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name:
String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n  override fun item(index: Int): MimeType?\n  fun
namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name:
String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n  open val name: String\n  open val description: String\n  open val filename:
String\n  override fun item(index: Int): MimeType?\n  fun namedItem(name: String):
MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String):
MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\npublic external abstract
class MimeType {\n  open val type: String\n  open val description: String\n  open val suffixes: String\n  open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\npublic external interface ImageBitmapOptions {\n  var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var colorSpaceConversion: ColorSpaceConversion?
/* = ColorSpaceConversion.DEFAULT */\n  get() = definedExternally\n  set(value) = definedExternally\n
var resizeMode: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeMode:
Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeMode: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha:
PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n  val o = js(\"({})\")\n  o[\"imageOrientation\"]
= imageOrientation\n
  o[\"premultiplyAlpha\"] = premultiplyAlpha\n  o[\"colorSpaceConversion\"] = colorSpaceConversion\n
  o[\"resizeWidth\"] = resizeMode\n  o[\"resizeHeight\"] = resizeMode\n  o[\"resizeQuality\"] = resizeMode\n
return o\n}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n  open val data:
Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source:
UnionMessagePortOrWindowProxy?\n  open val ports: Array<out MessagePort>\n  fun initMessageEvent(type:

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String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n } }\n\npublic external interface MessageEventInit : EventInit {\n    var data: Any? /* = null */\n
get() = definedExternally\n    set(value) = definedExternally\n    var origin: String? /* = "" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var lastEventId: String? /* = "" */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var source: UnionMessagePortOrWindowProxy? /* =
null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var ports: Array<MessagePort>? /*
= arrayOf() */\n    get() = definedExternally\n    set(value) =
definedExternally\n } }\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MessageEventInit(data: Any? = null,
origin: String? = "", lastEventId: String? = "", source: UnionMessagePortOrWindowProxy? = null, ports:
Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n    val o = js("{}")\n
o["data"] = data\n    o["origin"] = origin\n    o["lastEventId"] = lastEventId\n    o["source"] = source\n
o["ports"] = ports\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n }\n\n/**\n * Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\n\npublic external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n    open
val url: String\n    open val withCredentials: Boolean\n    open val readyState: Short\n    var onopen: ((Event) ->
dynamic)?\n    var onmessage: ((MessageEvent) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    fun
close()\n\n    companion object {\n        val CONNECTING: Short\n        val OPEN: Short\n        val CLOSED:
Short\n    }\n\n\npublic external interface
EventSourceInit {\n    var withCredentials: Boolean? /* = false */\n    get() = definedExternally\n    set(value)
= definedExternally\n }\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventSourceInit(withCredentials:
Boolean? = false): EventSourceInit {\n    val o = js("{}")\n    o["withCredentials"] = withCredentials\n    return
o\n }\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n */\n\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget {\n    open val url: String\n    open val readyState: Short\n    open val bufferedAmount: Number\n    var
onopen: ((Event) -> dynamic)?\n    var onerror: ((Event) -> dynamic)?\n    var onclose: ((Event) -> dynamic)?\n
open val extensions: String\n    open val protocol: String\n    var onmessage: ((MessageEvent) -> dynamic)?\n    var
binaryType: BinaryType\n
    fun close(code: Short = definedExternally, reason: String = definedExternally)\n    fun send(data: String)\n    fun
send(data: Blob)\n    fun send(data: ArrayBuffer)\n    fun send(data: ArrayBufferView)\n\n    companion object {\n
        val CONNECTING: Short\n        val OPEN: Short\n        val CLOSING: Short\n        val CLOSED: Short\n
    }\n\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to
Kotlin\n */\n\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) :
Event {\n    open val wasClean: Boolean\n    open val code: Short\n    open val reason: String\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n\n\npublic external interface CloseEventInit : EventInit {\n    var wasClean:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n
    var code: Short? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var reason:
String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n }\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun CloseEventInit(wasClean: Boolean? =
false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CloseEventInit {\n    val o = js("{}")\n    o["wasClean"] = wasClean\n    o["code"] = code\n

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o["reason"] = reason\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n *\npublic external
open class MessageChannel {\n  open val port1: MessagePort\n  open val port2: MessagePort\n}\n\n/**\n
* Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n  open var onmessage:
((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n  fun start()\n  fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n *\npublic
external open class BroadcastChannel(name: String) : EventTarget {\n  open val name: String\n  var onmessage:
((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?)\n  fun close()\n}\n\n/**\n * Exposes the
JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n
*\npublic external abstract class WorkerGlobalScope : EventTarget,
WindowOrWorkerGlobalScope, GlobalPerformance {\n  open val self: WorkerGlobalScope\n  open val location:
WorkerLocation\n  open val navigator: WorkerNavigator\n  open var onerror: ((dynamic, String, Int, Int, Any?) -
> dynamic)?\n  open var onlanguagechange: ((Event) -> dynamic)?\n  open var onoffline: ((Event) ->
dynamic)?\n  open var ononline: ((Event) -> dynamic)?\n  open var onrejectionhandled: ((Event) -> dynamic)?\n
open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n  fun importScripts(vararg urls:
String)\n}\n\n/**\n * Exposes the JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to
Kotlin\n *\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n  open var
onmessage: ((MessageEvent) -> dynamic)?\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n  fun close()\n}\n\n/**\n * Exposes the JavaScript
[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope)
to Kotlin\n *\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n  open val
name: String\n  open val applicationCache: ApplicationCache\n  open var onconnect: ((Event) -> dynamic)?\n
fun close()\n}\n\n/**\n * Exposes the JavaScript
[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n *\npublic external
interface AbstractWorker {\n  var onerror: ((Event) -> dynamic)?\n  get() = definedExternally\n  set(value)
= definedExternally\n}\n\n/**\n * Exposes the JavaScript
[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n *\npublic external open class
Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n  var
onmessage: ((MessageEvent) -> dynamic)?\n  override var onerror: ((Event) -> dynamic)?\n  fun terminate()\n
fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n  var type:
WorkerType? /* = WorkerType.CLASSIC */\n  get() = definedExternally\n  set(value) = definedExternally\n
var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? =
WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n  val o
= js("{}")\n  o["type"] = type\n  o["credentials"] = credentials\n  return o\n}\n\n/**\n * Exposes the
JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n *\npublic
external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions =
definedExternally) : EventTarget, AbstractWorker
{\n  open val port: MessagePort\n  override var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the
JavaScript
[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to

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Kotlin\n *\npublic external interface NavigatorConcurrentHardware {\n    val hardwareConcurrency:
Number\n}\n\n/**\n * Exposes the JavaScript
[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n *\npublic
external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
NavigatorConcurrentHardware {\n    open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the
JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n
*\npublic external abstract class WorkerLocation {\n    open val href: String\n    open val origin: String\n    open val
protocol: String\n    open val host: String\n    open val hostname: String\n    open val
port: String\n    open val pathname: String\n    open val search: String\n    open val hash: String\n}\n\n/**\n *
Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n *\npublic
external abstract class Storage {\n    open val length: Int\n    fun key(index: Int): String?\n    fun removeItem(key:
String)\n    fun clear()\n    fun getItem(key: String): String?\n    fun setItem(key: String, value:
String)\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String):
String? = asDynamic()[key]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value:
String) { asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript
[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n
*\npublic external interface WindowSessionStorage
{\n    val sessionStorage: Storage\n}\n\n/**\n * Exposes the JavaScript
[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n
*\npublic external interface WindowLocalStorage {\n    val localStorage: Storage\n}\n\n/**\n * Exposes the
JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n *\npublic
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
    open val key: String?\n    open val oldValue: String?\n    open val newValue: String?\n    open val url: String\n
    open val storageArea: Storage?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
StorageEventInit : EventInit {\n    var key: String? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n    var oldValue:
String? /* = null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var newValue: String?
/* = null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var url: String? /* = "" */\n
get() = definedExternally\n    set(value) = definedExternally\n    var storageArea: Storage? /* = null */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n    val o =
js("{}")\n    o["key"] = key\n    o["oldValue"] = oldValue\n    o["newValue"] = newValue\n    o["url"] =
url\n    o["storageArea"] = storageArea\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external abstract class
HTMLAppletElement : HTMLElement {\n    open var align: String\n    open var alt: String\n    open var archive:
String\n    open var code: String\n    open var codeBase: String\n    open var height: String\n    open var hspace: Int\n
    open var name: String\n    open var _object: String\n    open var vspace: Int\n    open var width: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:

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Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val
DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n
    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to
Kotlin\n */\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n    open var behavior:
String\n    open var bgColor: String\n    open var direction: String\n    open var height: String\n    open var hspace:
Int\n    open var loop: Int\n    open var scrollAmount: Int\n    open var scrollDelay: Int\n    open var trueSpeed:
Boolean\n    open var vspace: Int\n    open var width: String\n    open var onbounce: ((Event) -> dynamic)?\n    open
var onfinish: ((Event) -> dynamic)?\n    open var onstart: ((Event) -> dynamic)?\n    fun start()\n    fun stop()\n\n
companion object {\n    val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n    open var
cols: String\n    open var rows:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
HTMLFrameElement : HTMLElement {\n    open var name: String\n    open var scrolling: String\n    open var src:
String\n    open var frameBorder: String\n    open var longDesc:
String\n    open var noResize: Boolean\n    open val contentDocument: Document?\n    open val contentWindow:
Window?\n    open var marginHeight: String\n    open var marginWidth: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract
class HTMLDirectoryElement : HTMLElement {\n    open var compact: Boolean\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val

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DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n *\npublic
external abstract class HTMLFontElement : HTMLElement {\n    open var color: String\n    open var face: String\n
open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface External
{\n    fun AddSearchProvider()\n    fun
IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n    var bubbles: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var cancelable: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var composed: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n    val o = js(\"({})\")\n    o[\"bubbles\"] =
bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n *\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally)
: Event {\n    open val detail: Any?\n    fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean,
detail: Any?)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CustomEventInit :
EventInit {\n    var detail: Any? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n    val o
= js(\"({})\")\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\npublic external interface EventListenerOptions {\n    var capture:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n    val o = js(\"({})\")\n    o[\"capture\"] = capture\n    return
o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n    var passive: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var once: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:
Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n    val o =
js(\"({})\")\n    o[\"passive\"] = passive\n    o[\"once\"] = once\n    o[\"capture\"] = capture\n    return o\n}\n\npublic

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external interface NonElementParentNode {\n fun getElementById(elementId: String): Element?\n}\n\n/**\n *
Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n
*/\n\npublic external interface DocumentOrShadowRoot {\n val fullscreenElement: Element?\n get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\n\npublic external interface
ParentNode {\n val children: HTMLCollection\n val firstElementChild: Element?\n get() =
definedExternally\n val lastElementChild: Element?\n get() = definedExternally\n val childElementCount:
Int\n fun prepend(vararg nodes: dynamic)\n fun append(vararg nodes: dynamic)\n fun querySelector(selectors:
String): Element?\n fun querySelectorAll(selectors: String): NodeList}\n\n/**\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode)
to Kotlin\n */\n\npublic external interface NonDocumentTypeChildNode {\n val previousElementSibling:
Element?\n get() = definedExternally\n val nextElementSibling: Element?\n get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\n\npublic external interface
ChildNode {\n fun before(vararg nodes: dynamic)\n fun after(vararg nodes: dynamic)\n fun
replaceWith(vararg nodes: dynamic)\n fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\n\npublic external interface Slotable
{\n val assignedSlot: HTMLSlotElement?\n get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n */\n\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n override
fun item(index: Int): Node?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\n\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
override fun item(index: Int): Element?\n fun namedItem(name: String):
Element?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(index:
Int): Element? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver)
to Kotlin\n */\n\npublic external open class MutationObserver(callback: (Array<MutationRecord>,
MutationObserver) -> Unit) {\n fun observe(target: Node, options: MutationObserverInit = definedExternally)\n
fun disconnect()\n fun takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n
*/\n\npublic external interface MutationObserverInit {\n var childList: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributes: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterData: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var subtree: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var attributeOldValue: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var characterDataOldValue: Boolean?\n get() = definedExternally\n set(value) =
definedExternally\n var attributeFilter: Array<String>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MutationObserverInit(childList:
Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false,

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open val head: HTMLHeadElement?\n open val images: HTMLCollection\n open val embeds:
HTMLCollection\n open val plugins: HTMLCollection\n open val links: HTMLCollection\n open val forms:
HTMLCollection\n open val scripts: HTMLCollection\n open val currentScript: HTMLScriptElement?\n
open val defaultView: Window?\n open val activeElement: Element?\n var designMode: String\n var
onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor:
String\n var alinkColor: String\n var bgColor: String\n open val anchors: HTMLCollection\n open val
applets: HTMLCollection\n open val all: HTMLAllCollection\n open val scrollingElement: Element?\n open
val styleSheets: StyleSheetList\n open val rootElement: SVGSVGElement?\n open val fullscreenEnabled:
Boolean\n open val fullscreen: Boolean\n var onfullscreenchange: ((Event) -> dynamic)?\n var
onfullscreenerror: ((Event)
-> dynamic)?\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) ->
dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n
override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n
override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var
oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var
ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var
ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var
ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var
ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override
var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var
onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror:
((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override
var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var
onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n
override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override
var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var
onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var
onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n
override var onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) ->
dynamic)?\n override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover:
((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel:
((WheelEvent) -> dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) ->
dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) ->
dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n
override var onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var
onseeked: ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect:
((Event) -> dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) ->
dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n

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    override var oncut: ((ClipboardEvent) -> dynamic)?\n    override var onpaste: ((ClipboardEvent) -> dynamic)?\n
    override val fullscreenElement: Element?\n    override val children: HTMLCollection\n    override val
    firstElementChild: Element?\n    override val lastElementChild: Element?\n    override val childElementCount: Int\n
    fun getElementsByTagName(qualifiedName: String): HTMLCollection\n    fun
    getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n    fun
    getElementsByTagNameNS(classNames: String): HTMLCollection\n    fun createElement(localName: String,
    options: ElementCreationOptions = definedExternally): Element\n    fun createElementNS(namespace: String?,
    qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n    fun
    createDocumentFragment(): DocumentFragment\n    fun createTextNode(data: String): Text\n    fun
    createCDATASection(data: String): CDATASection\n    fun createComment(data: String): Comment\n    fun
    createProcessingInstruction(target: String, data: String): ProcessingInstruction\n    fun importNode(node: Node,
    deep: Boolean = definedExternally): Node\n    fun adoptNode(node: Node): Node\n    fun
    createAttribute(localName: String): Attr\n    fun createAttributeNS(namespace: String?, qualifiedName: String):
    Attr\n    fun createEvent(`interface`: String): Event\n    fun createRange(): Range\n    fun createNodeIterator(root:
    Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n    fun
    createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
    definedExternally): NodeIterator\n    fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
    NodeFilter? = definedExternally): TreeWalker\n    fun createTreeWalker(root: Node, whatToShow: Int =
    definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n    fun
    getElementsByTagName(elementName: String): NodeList\n    fun open(type:
    String = definedExternally, replace: String = definedExternally): Document\n    fun open(url: String, name: String,
    features: String): Window\n    fun close()\n    fun write(vararg text: String)\n    fun writeln(vararg text: String)\n
    fun hasFocus(): Boolean\n    fun execCommand(commandId: String, showUI: Boolean = definedExternally, value:
    String = definedExternally): Boolean\n    fun queryCommandEnabled(commandId: String): Boolean\n    fun
    queryCommandIndeterm(commandId: String): Boolean\n    fun queryCommandState(commandId: String):
    Boolean\n    fun queryCommandSupported(commandId: String): Boolean\n    fun
    queryCommandValue(commandId: String): String\n    fun clear()\n    fun captureEvents()\n    fun releaseEvents()\n
    fun elementFromPoint(x: Double, y: Double): Element?\n    fun elementsFromPoint(x: Double, y: Double):
    Array<Element>\n    fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n    fun createTouch(view:
    Window, target: EventTarget, identifier:
    Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n    fun createTouchList(vararg touches: Touch):
    TouchList\n    fun exitFullscreen(): Promise<Unit>\n    override fun getElementById(elementId: String): Element?\n
    override fun prepend(vararg nodes: dynamic)\n    override fun append(vararg nodes: dynamic)\n    override fun
    querySelector(selectors: String): Element?\n    override fun querySelectorAll(selectors: String): NodeList\n
    override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n    override
    fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
    definedExternally */): DOMQuad\n    override fun convertRectFromNode(rect: DOMRectReadOnly, from:
    dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n    override fun
    convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
    definedExternally */): DOMPoint\n\n    companion object
    {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
        ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
        Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
        DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
        DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress("INVISIBLE_REFERENCE"),
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument)
to Kotlin\n *\npublic external open class XMLDocument : Document {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external interface
ElementCreationOptions {\n  var `is`: String?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE"),
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n  val o = js("{}")\n  o["is"] = `is`\n  return o\n}\n\n/**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*\npublic external abstract class DOMImplementation {\n  fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n  fun createDocument(namespace: String?, qualifiedName:
String, doctype: DocumentType? = definedExternally): XMLDocument\n  fun createHTMLDocument(title: String
= definedExternally): Document\n  fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n *\npublic external
abstract class DocumentType : Node, ChildNode
{\n  open val name: String\n  open val publicId: String\n  open val systemId: String\n\n  companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to
Kotlin\n *\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n
override val children: HTMLCollection\n  override val firstElementChild: Element?\n  override val
lastElementChild: Element?\n  override val childElementCount: Int\n  override fun getElementById(elementId:
String): Element?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes:
dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors:
String): NodeList\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val

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DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic
external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n    open val mode:
ShadowRootMode\n    open val host: Element\n    override val fullscreenElement: Element?\n\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE:
Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external
abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n    open val namespaceURI: String?\n    open val prefix: String?\n    open
val localName: String\n    open val tagName: String\n    open var id: String\n    open var className: String\n    open
val classList:
DOMTokenList\n    open var slot: String\n    open val attributes: NamedNodeMap\n    open val shadowRoot:
ShadowRoot?\n    open var scrollTop: Double\n    open var scrollLeft: Double\n    open val scrollWidth: Int\n
open val scrollHeight: Int\n    open val clientTop: Int\n    open val clientLeft: Int\n    open val clientWidth: Int\n
open val clientHeight: Int\n    open var innerHTML: String\n    open var outerHTML: String\n    fun hasAttributes():
Boolean\n    fun getAttributeNames(): Array<String>\n    fun getAttribute(qualifiedName: String): String?\n    fun
getAttributeNS(namespace: String?, localName: String): String?\n    fun setAttribute(qualifiedName: String, value:
String)\n    fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n    fun
removeAttribute(qualifiedName: String)\n    fun removeAttributeNS(namespace: String?, localName: String)\n
fun hasAttribute(qualifiedName: String): Boolean\n    fun hasAttributeNS(namespace: String?, localName:
String): Boolean\n    fun getAttributeNode(qualifiedName: String): Attr?\n    fun getAttributeNodeNS(namespace:
String?, localName: String): Attr?\n    fun setAttributeNode(attr: Attr): Attr?\n    fun setAttributeNodeNS(attr: Attr):
Attr?\n    fun removeAttributeNode(attr: Attr): Attr?\n    fun attachShadow(init: ShadowRootInit): ShadowRoot\n
fun closest(selectors: String): Element?\n    fun matches(selectors: String): Boolean\n    fun
webkitMatchesSelector(selectors: String): Boolean\n    fun getElementsByTagName(qualifiedName: String):
HTMLCollection\n    fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n
fun getElementsByClassName(classNames: String): HTMLCollection\n    fun insertAdjacentElement(when: String,
element: Element): Element?\n    fun insertAdjacentText(when: String, data: String)\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun scrollIntoView()\n    fun
scrollIntoView(arg: dynamic)\n
    fun scroll(options: ScrollToOptions = definedExternally)\n    fun scroll(x: Double, y: Double)\n    fun
scrollTo(options: ScrollToOptions = definedExternally)\n    fun scrollTo(x: Double, y: Double)\n    fun
scrollBy(options: ScrollToOptions = definedExternally)\n    fun scrollBy(x: Double, y: Double)\n    fun
insertAdjacentHTML(position: String, text: String)\n    fun setPointerCapture(pointerId: Int)\n    fun
releasePointerCapture(pointerId: Int)\n    fun hasPointerCapture(pointerId: Int): Boolean\n    fun requestFullscreen():
Promise<Unit>\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:

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Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface ShadowRootInit {\n    var mode: ShadowRootMode?\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n    val o = js(\\"({})\")\n    o[\"mode\"] = mode\n    return o\n}\n\n/**\n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n */\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n    fun
getItemNS(namespace: String?, localName: String): Attr?\n    fun setNamedItem(attr: Attr): Attr?\n    fun
setNamedItemNS(attr: Attr): Attr?\n
    fun removeNamedItem(qualifiedName: String): Attr?\n    fun removeNamedItemNS(namespace: String?,
localName: String): Attr?\n    override fun item(index: Int): Attr?\n    fun getItem(qualifiedName: String):
Attr?\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index]\n\n@Suppress(\\"INVISIBLE_REFERENCE\",
\\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external abstract class
Attr : Node {\n    open val namespaceURI: String?\n    open val prefix: String?\n    open val localName: String\n    open val name: String\n    open var value: String\n    open val ownerElement: Element?\n    open val specified:
Boolean\n}\n\ncompanion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n    open var data: String\n
    open val length: Int\n    fun substringData(offset: Int, count: Int): String\n    fun appendData(data: String)\n    fun
insertData(offset: Int, data: String)\n    fun deleteData(offset: Int, count: Int)\n    fun replaceData(offset: Int, count:
Int, data: String)\n}\n\ncompanion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
    Short\n    }\n}\n\n/**\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to
Kotlin\n */\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable,
GeometryUtils {\n    open val wholeText: String\n    override val assignedSlot: HTMLSlotElement?\n    override val
previousElementSibling: Element?\n    override val nextElementSibling: Element?\n    fun splitText(offset: Int):
Text\n    override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n
override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n    override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n    override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */):
    DOMPoint\n    override fun before(vararg nodes: dynamic)\n    override fun after(vararg nodes: dynamic)\n
override fun replaceWith(vararg nodes: dynamic)\n    override fun remove()\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external
open class CDATASection : Text {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction)
to Kotlin\n */\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle,
UnionElementOrProcessingInstruction {\n    open val target: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to
Kotlin\n */\npublic external open class Comment(data: String = definedExternally) : CharacterData {\n    override

```

```

val previousElementSibling: Element? override val nextElementSibling: Element? override fun
before(vararg nodes: dynamic) override fun after(vararg nodes: dynamic) override fun replaceWith(vararg
nodes: dynamic) override fun remove()\n\n companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n
        val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING:
Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val
DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n /**\n * Exposes the JavaScript
[Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n */\n\n public external open class Range {\n
    open val startContainer: Node\n    open val startOffset: Int\n    open val endContainer: Node\n    open val
endOffset: Int\n    open val collapsed: Boolean\n    open val commonAncestorContainer: Node\n    fun setStart(node:
Node, offset: Int)\n    fun setEnd(node: Node, offset: Int)\n    fun setStartBefore(node: Node)\n    fun
setStartAfter(node: Node)\n    fun setEndBefore(node: Node)\n    fun setEndAfter(node: Node)\n    fun
collapse(toStart: Boolean = definedExternally)\n    fun selectNode(node: Node)\n    fun selectNodeContents(node:
Node)\n    fun compareBoundaryPoints(how:
Short, sourceRange: Range): Short\n    fun deleteContents()\n    fun extractContents(): DocumentFragment\n    fun
cloneContents(): DocumentFragment\n    fun insertNode(node: Node)\n    fun surroundContents(newParent: Node)\n
    fun cloneRange(): Range\n    fun detach()\n    fun isPointInRange(node: Node, offset: Int): Boolean\n    fun
comparePoint(node: Node, offset: Int): Short\n    fun intersectsNode(node: Node): Boolean\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun createContextualFragment(fragment:
String): DocumentFragment\n\n    companion object {\n        val START_TO_START: Short\n        val
START_TO_END: Short\n        val END_TO_END: Short\n        val END_TO_START: Short\n    } \n\n /**\n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n */\n\n public external abstract class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open
val pointerBeforeReferenceNode:
Boolean\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun nextNode(): Node?\n    fun
previousNode(): Node?\n    fun detach()\n } \n\n /**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n */\n\n public external abstract
class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open
val currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun lastChild(): Node?\n    fun
previousSibling(): Node?\n    fun nextSibling(): Node?\n    fun previousNode(): Node?\n    fun nextNode():
Node?\n } \n\n /**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n */\n\n public external interface NodeFilter {\n
    fun acceptNode(node: Node): Short\n\n    companion object {\n        val FILTER_ACCEPT: Short\n        val
FILTER_REJECT:
Short\n        val FILTER_SKIP: Short\n        val SHOW_ALL: Int\n        val SHOW_ELEMENT: Int\n        val
SHOW_ATTRIBUTE: Int\n        val SHOW_TEXT: Int\n        val SHOW_CDATA_SECTION: Int\n        val
SHOW_ENTITY_REFERENCE: Int\n        val SHOW_ENTITY: Int\n        val
SHOW_PROCESSING_INSTRUCTION: Int\n        val SHOW_COMMENT: Int\n        val SHOW_DOCUMENT:
Int\n        val SHOW_DOCUMENT_TYPE: Int\n        val SHOW_DOCUMENT_FRAGMENT: Int\n        val
SHOW_NOTATION: Int\n    } \n\n /**\n * Exposes the JavaScript
[DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n */\n\n public external

```

```

abstract class DOMTokenList : ItemArrayLike<String> {
    open var value: String
    fun contains(token: String): Boolean
    fun add(vararg tokens: String)
    fun remove(vararg tokens: String)
    fun toggle(token: String, force: Boolean = definedExternally): Boolean
    fun replace(token: String, newToken: String)
    fun supports(token: String): Boolean

    override fun item(index: Int): String?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]

/** Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin */
public external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {
    open val x: Double
    open val y: Double
    open val z: Double
    open val w: Double
    fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint
}

/** Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin */
public external open class DOMPoint : DOMPointReadOnly {
    constructor(point: DOMPointInit)
    constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)

    override var x: Double
        override var y: Double
        override var z: Double
        override var w: Double
}

/** Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin */
public external interface DOMPointInit {
    var x: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var y: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var z: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var w: Double? /* = 1.0 */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {
    val o = js("{}")
    o["x"] = x
    o["y"] = y
    o["z"] = z
    o["w"] = w
    return o
}

/** Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin */
public external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {
    override var x: Double
    override var y: Double
    override var width: Double
    override var height: Double
}

/** Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin */
public external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {
    open val x: Double
    open val y: Double
    open val width: Double
    open val height: Double
    open val top: Double
    open val right: Double
    open val bottom: Double
    open val left: Double
}

public external interface DOMRectInit {
    var x: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var y: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var width: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
    var height: Double? /* = 0.0 */
    get() = definedExternally
    set(value) = definedExternally
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {
    val o = js("{}")
    o["x"] = x
    o["y"] = y
    o["width"] = width
    o["height"] = height
    return o
}

public external interface DOMRectList : ItemArrayLike<DOMRect> {
    override fun item(index: Int): DOMRect?
}

@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]

/** Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin */
public external open class DOMQuad {
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit =

```

```

definedExternally)\n  constructor(rect: DOMRectInit)\n  open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3: DOMPoint\n  open val p4: DOMPoint\n  open val bounds: DOMRectReadOnly}\n\n/**\n *
Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n
*/\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n  open val a: Double\n  open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f: Double\n  open val m11: Double\n  open val m12: Double\n  open val m13: Double\n  open val m14: Double\n  open val
m21: Double\n
  open val m22: Double\n  open val m23: Double\n  open val m24: Double\n  open val m31: Double\n  open
val m32: Double\n  open val m33: Double\n  open val m34: Double\n  open val m41: Double\n  open val m42:
Double\n  open val m43: Double\n  open val m44: Double\n  open val is2D: Boolean\n  open val isIdentity:
Boolean\n  fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n  fun scale(scale:
Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n  fun
scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double
= definedExternally): DOMMatrix\n  fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally,
scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n  fun rotate(angle: Double, originX: Double =
definedExternally,
  originY: Double = definedExternally): DOMMatrix\n  fun rotateFromVector(x: Double, y: Double):
DOMMatrix\n  fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n  fun
skewX(sx: Double): DOMMatrix\n  fun skewY(sy: Double): DOMMatrix\n  fun multiply(other: DOMMatrix):
DOMMatrix\n  fun flipX(): DOMMatrix\n  fun flipY(): DOMMatrix\n  fun inverse(): DOMMatrix\n  fun
transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n  fun toFloat32Array(): Float32Array\n
fun toFloat64Array(): Float64Array}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n
*/\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n  constructor(transformList: String)\n  constructor(other:
DOMMatrixReadOnly)\n  constructor(array32: Float32Array)\n  constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n  override var a: Double\n  override var b:
Double\n  override var c: Double\n  override var d: Double\n  override var e: Double\n  override var f:
Double\n  override var m11: Double\n  override var m12: Double\n  override var m13: Double\n  override var
m14: Double\n  override var m21: Double\n  override var m22: Double\n  override var m23: Double\n  override
var m24: Double\n  override var m31: Double\n  override var m32: Double\n  override var m33: Double\n
override var m34: Double\n  override var m41: Double\n  override var m42: Double\n  override var m43:
Double\n  override var m44: Double\n  fun multiplySelf(other: DOMMatrix): DOMMatrix\n  fun
preMultiplySelf(other: DOMMatrix): DOMMatrix\n  fun translateSelf(tx: Double, ty: Double, tz: Double =
definedExternally): DOMMatrix\n  fun scaleSelf(scale: Double, originX: Double = definedExternally, originY:
Double = definedExternally): DOMMatrix\n  fun scale3dSelf(scale: Double, originX: Double = definedExternally,
originY: Double
    = definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun scaleNonUniformSelf(scaleX:
Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double =
definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun
rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally):
DOMMatrix\n  fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n  fun rotateAxisAngleSelf(x:
Double, y: Double, z: Double, angle: Double): DOMMatrix\n  fun skewXSelf(sx: Double): DOMMatrix\n  fun
skewYSelf(sy: Double): DOMMatrix\n  fun invertSelf(): DOMMatrix\n  fun setMatrixValue(transformList:
String): DOMMatrix}\n\npublic external interface ScrollOptions {\n  var behavior: ScrollBehavior? /* =
ScrollBehavior.AUTO */\n  get() = definedExternally\n  set(value) =
definedExternally}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

```

```

\invisible_member\kotlin.internal.InlineOnlypublic
inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {
    val o = js("{}")
    o["behavior"] = behavior
    return o
}
/**
 * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin
 */
public external interface ScrollToOptions : ScrollOptions {
    var left: Double?
    get() = definedExternally
    set(value) = definedExternally
    var top: Double?
    get() = definedExternally
    set(value) = definedExternally
}
\invisible_member\kotlin.internal.InlineOnlypublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {
    val o = js("{}")
    o["left"] = left
    o["top"] = top
    o["behavior"] = behavior
    return o
}
/**
 * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin
 */
public external abstract class MediaQueryList : EventTarget {
    open val media: String
    open val matches: Boolean
    open var onchange: ((Event) -> dynamic)?
    fun addListener(listener: EventListener?)
    fun addListener(listener: ((Event) -> Unit)?)
    fun removeListener(listener: EventListener?)
    fun removeListener(listener: ((Event) -> Unit)?)
}
/**
 * Exposes the JavaScript [MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin
 */
public external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {
    open val media: String
    open val matches: Boolean
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
public external interface MediaQueryListEventInit : EventInit {
    var media: String? /* = "" */
    get() = definedExternally
    set(value) = definedExternally
    var matches: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}
\invisible_member\kotlin.internal.InlineOnlypublic inline fun MediaQueryListEventInit(media: String? = "", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {
    val o = js("{}")
    o["media"] = media
    o["matches"] = matches
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
/**
 * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin
 */
public external abstract class Screen {
    open val availWidth: Int
    open val availHeight: Int
    open val width: Int
    open val height: Int
    open val colorDepth: Int
    open val pixelDepth: Int
}
/**
 * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin
 */
public external abstract class CaretPosition {
    open val offsetNode: Node
    open val offset: Int
    fun getClientRect(): DOMRect?
}
public external interface ScrollIntoViewOptions : ScrollOptions {
    var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
    get() = definedExternally
    set(value) = definedExternally
    var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */
    get() = definedExternally
    set(value) = definedExternally
}
\invisible_member\kotlin.internal.InlineOnlypublic inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {
    val o = js("{}")
    o["block"] = block
    o["inline"] = inline
    o["behavior"] = behavior
    return o
}
public external interface BoxQuadOptions {
    var box: CSSBoxType? /* = CSSBoxType.BORDER */
    get() = definedExternally
    set(value) = definedExternally
    var relativeTo: dynamic
    get() = definedExternally
    set(value) = definedExternally
}
\invisible_member\kotlin.internal.InlineOnlypublic inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {
    val o = js("{}")
    o["box"] = box
    o["relativeTo"] = relativeTo
    return o
}
public external interface

```



```

ConvertCoordinateOptions { \n  var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */ \n    get() =
definedExternally \n    set(value) = definedExternally \n  var toBox: CSSBoxType? /* = CSSBoxType.BORDER
*/ \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun ConvertCoordinateOptions(fromBox:
CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER):
ConvertCoordinateOptions { \n  val o = js("({})") \n  o["fromBox"] = fromBox \n  o["toBox"] = toBox \n
return o \n} \n \n /** \n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin \n */ \n public external
interface GeometryUtils { \n  fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad> \n  fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad \n  fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad \n  fun
convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions = definedExternally): DOMPoint \n} \n \n /** \n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin \n */ \n public external abstract class Touch
{ \n  open val identifier: Int \n  open val target: EventTarget \n  open val screenX: Int \n  open val screenY: Int \n
open val clientX: Int \n  open val clientY: Int \n  open val pageX: Int \n  open val pageY: Int \n  open val region:
String? \n} \n \n public external abstract class TouchList : ItemArrayLike<Touch> { \n  override fun item(index: Int):
Touch? \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline operator fun TouchList.get(index: Int):
Touch? = asDynamic()[index] \n \n public external open class TouchEvent : UIEvent { \n  open val touches:
TouchList \n  open val targetTouches: TouchList \n  open val changedTouches: TouchList \n  open val altKey:
Boolean \n  open val metaKey: Boolean \n  open val
ctrlKey: Boolean \n  open val shiftKey: Boolean \n \n  companion object { \n    val NONE: Short \n    val
CAPTURING_PHASE: Short \n    val AT_TARGET: Short \n    val BUBBLING_PHASE: Short \n  } \n} \n \n /** \n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin \n
*/ \n public external open class Image(width: Int = definedExternally, height: Int = definedExternally) :
HTMLImageElement { \n  override var onabort: ((Event) -> dynamic)? \n  override var onblur: ((FocusEvent) ->
dynamic)? \n  override var oncancel: ((Event) -> dynamic)? \n  override var oncanplay: ((Event) -> dynamic)? \n
override var oncanplaythrough: ((Event) -> dynamic)? \n  override var onchange: ((Event) -> dynamic)? \n
override var onclick: ((MouseEvent) -> dynamic)? \n  override var onclose: ((Event) -> dynamic)? \n  override var
oncontextmenu: ((MouseEvent) -> dynamic)? \n  override var oncuechange: ((Event) -> dynamic)? \n  override var
ondblclick: ((MouseEvent)
-> dynamic)? \n  override var ondrag: ((DragEvent) -> dynamic)? \n  override var ondragend: ((DragEvent) ->
dynamic)? \n  override var ondragenter: ((DragEvent) -> dynamic)? \n  override var ondragexit: ((DragEvent) ->
dynamic)? \n  override var ondragleave: ((DragEvent) -> dynamic)? \n  override var ondragover: ((DragEvent) ->
dynamic)? \n  override var ondragstart: ((DragEvent) -> dynamic)? \n  override var ondrop: ((DragEvent) ->
dynamic)? \n  override var ondurationchange: ((Event) -> dynamic)? \n  override var onemptied: ((Event) ->
dynamic)? \n  override var onended: ((Event) -> dynamic)? \n  override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)? \n  override var onfocus: ((FocusEvent) -> dynamic)? \n  override var oninput: ((InputEvent) -
> dynamic)? \n  override var oninvalid: ((Event) -> dynamic)? \n  override var onkeydown: ((KeyboardEvent) ->
dynamic)? \n  override var onkeypress: ((KeyboardEvent) -> dynamic)? \n  override var onkeyup:
((KeyboardEvent) -> dynamic)? \n  override var onload: ((Event) -> dynamic)? \n  override var onloadeddata:
((Event) -> dynamic)? \n  override var onloadedmetadata: ((Event) -> dynamic)? \n  override var onloadend:
((Event) -> dynamic)? \n  override var onloadstart: ((ProgressEvent) -> dynamic)? \n  override var onmousedown:
((MouseEvent) -> dynamic)? \n  override var onmouseenter: ((MouseEvent) -> dynamic)? \n  override var
onmouseleave: ((MouseEvent) -> dynamic)? \n  override var onmousemove: ((MouseEvent) -> dynamic)? \n

```

```

override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange:
((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) ->
dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n
override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var
onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit:
((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -
> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) ->
dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent)
-> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown:
((PointerEvent) -> dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n
  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) ->
dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout:
((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var
onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override
var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override
var contentEditable: String\n  override val isContentEditable: Boolean\n  override val style:
CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val firstElementChild: Element?\n
override val lastElementChild: Element?\n  override val childElementCount: Int\n  override val
previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot:
HTMLSlotElement?\n
  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun
querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors: String): NodeList\n
override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun
replaceWith(vararg nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE:
Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n    override var onabort: ((Event) -> dynamic)?\n
override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel: ((Event) -> dynamic)?\n  override var
oncanplay: ((Event) -> dynamic)?\n
    override var oncanplaythrough: ((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n
override var onclick: ((MouseEvent) -> dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var

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oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var
ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var
ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var
ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var
ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var
ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var
onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var
onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n
override var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var
onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n
override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override
var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var
onloadend: ((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var
onmousedown: ((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n
override var onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) ->
dynamic)?\n  override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover:
((MouseEvent)
-> dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) -
> dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var
onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked:
((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) ->
dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override
var onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val isContentEditable:
Boolean\n  override
val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val firstElementChild:
Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n  override val
previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val assignedSlot:
HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg nodes:
dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun querySelectorAll(selectors:
String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun after(vararg nodes: dynamic)\n
override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n  override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n  companion object {\n    val

```

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NETWORK_EMPTY: Short\n    val NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n
val NETWORK_NO_SOURCE: Short\n    val HAVE_NOTHING: Short\n    val HAVE_METADATA:
Short\n    val HAVE_CURRENT_DATA: Short\n    val HAVE_FUTURE_DATA: Short\n    val
HAVE_ENOUGH_DATA: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin \n * \n public external open class
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement { \n    override var onabort:
((Event) -> dynamic)? \n    override var onblur: ((FocusEvent) -> dynamic)? \n    override var oncancel: ((Event) ->
dynamic)? \n    override var oncanplay: ((Event) -> dynamic)? \n    override var oncanplaythrough: ((Event) ->
dynamic)? \n    override var onchange: ((Event)
-> dynamic)? \n    override var onclick: ((MouseEvent) -> dynamic)? \n    override var onclose: ((Event) ->
dynamic)? \n    override var oncontextmenu: ((MouseEvent) -> dynamic)? \n    override var oncuechange: ((Event) ->
dynamic)? \n    override var ondblclick: ((MouseEvent) -> dynamic)? \n    override var ondrag: ((DragEvent) ->
dynamic)? \n    override var ondragend: ((DragEvent) -> dynamic)? \n    override var ondragenter: ((DragEvent) ->
dynamic)? \n    override var ondragexit: ((DragEvent) -> dynamic)? \n    override var ondragleave: ((DragEvent) ->
dynamic)? \n    override var ondragover: ((DragEvent) -> dynamic)? \n    override var ondragstart: ((DragEvent) ->
dynamic)? \n    override var ondrop: ((DragEvent) -> dynamic)? \n    override var ondurationchange: ((Event) ->
dynamic)? \n    override var onemptied: ((Event) -> dynamic)? \n    override var onended: ((Event) -> dynamic)? \n
override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)? \n    override var onfocus: ((FocusEvent)
-> dynamic)? \n    override var oninput: ((InputEvent) -> dynamic)? \n    override var oninvalid: ((Event) ->
dynamic)? \n    override var onkeydown: ((KeyboardEvent) -> dynamic)? \n    override var onkeypress:
((KeyboardEvent) -> dynamic)? \n    override var onkeyup: ((KeyboardEvent) -> dynamic)? \n    override var onload:
((Event) -> dynamic)? \n    override var onloadeddata: ((Event) -> dynamic)? \n    override var onloadedmetadata:
((Event) -> dynamic)? \n    override var onloadend: ((Event) -> dynamic)? \n    override var onloadstart:
((ProgressEvent) -> dynamic)? \n    override var onmousedown: ((MouseEvent) -> dynamic)? \n    override var
onmouseenter: ((MouseEvent) -> dynamic)? \n    override var onmouseleave: ((MouseEvent) -> dynamic)? \n
override var onmousemove: ((MouseEvent) -> dynamic)? \n    override var onmouseout: ((MouseEvent) ->
dynamic)? \n    override var onmouseover: ((MouseEvent) -> dynamic)? \n    override var onmouseup: ((MouseEvent)
-> dynamic)? \n    override var onwheel:
((WheelEvent) -> dynamic)? \n    override var onpause: ((Event) -> dynamic)? \n    override var onplay: ((Event) ->
dynamic)? \n    override var onplaying: ((Event) -> dynamic)? \n    override var onprogress: ((ProgressEvent) ->
dynamic)? \n    override var onratechange: ((Event) -> dynamic)? \n    override var onreset: ((Event) -> dynamic)? \n
override var onresize: ((Event) -> dynamic)? \n    override var onscroll: ((Event) -> dynamic)? \n    override var
onseeked: ((Event) -> dynamic)? \n    override var onseeking: ((Event) -> dynamic)? \n    override var onselect:
((Event) -> dynamic)? \n    override var onshow: ((Event) -> dynamic)? \n    override var onstalled: ((Event) ->
dynamic)? \n    override var onsubmit: ((Event) -> dynamic)? \n    override var onsuspend: ((Event) -> dynamic)? \n
override var ontimeupdate: ((Event) -> dynamic)? \n    override var ontoggle: ((Event) -> dynamic)? \n    override var
onvolumechange: ((Event) -> dynamic)? \n    override var onwaiting: ((Event) -> dynamic)? \n

```

```

    override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override var onlostpointercapture:
((PointerEvent) -> dynamic)?\n    override var onpointerdown: ((PointerEvent) -> dynamic)?\n    override var
onpointermove: ((PointerEvent) -> dynamic)?\n    override var onpointerup: ((PointerEvent) -> dynamic)?\n
override var onpointercancel: ((PointerEvent) -> dynamic)?\n    override var onpointerover: ((PointerEvent) ->
dynamic)?\n    override var onpointerout: ((PointerEvent) -> dynamic)?\n    override var onpointerenter:
((PointerEvent) -> dynamic)?\n    override var onpointerleave: ((PointerEvent) -> dynamic)?\n    override var
oncopy: ((ClipboardEvent) -> dynamic)?\n    override var oncut: ((ClipboardEvent) -> dynamic)?\n    override var
onpaste: ((ClipboardEvent) -> dynamic)?\n    override var contentEditable: String\n    override val
isContentEditable: Boolean\n    override val style: CSSStyleDeclaration\n    override val children:
HTMLCollection\n    override val
    firstElementChild: Element?\n    override val lastElementChild: Element?\n    override val childElementCount:
Int\n    override val previousElementSibling: Element?\n    override val nextElementSibling: Element?\n    override
val assignedSlot: HTMLSlotElement?\n    override fun prepend(vararg nodes: dynamic)\n    override fun
append(vararg nodes: dynamic)\n    override fun querySelector(selectors: String): Element?\n    override fun
querySelectorAll(selectors: String): NodeList\n    override fun before(vararg nodes: dynamic)\n    override fun
after(vararg nodes: dynamic)\n    override fun replaceWith(vararg nodes: dynamic)\n    override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n    override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n    override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions
/* = definedExternally */): DOMQuad\n    override fun convertPointFromNode(point: DOMPointInit, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n    companion object {\n
val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n\n    public external interface
    UnionElementOrHTMLCollection\n\n    public external interface UnionElementOrRadioNodeList\n\n    public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\n    public external interface
    UnionAudioTrackOrTextTrackOrVideoTrack\n\n    public external interface UnionElementOrMouseEvent\n\n    public
external interface UnionMessagePortOrWindowProxy\n\n    public external interface MediaPlayer\n\n    public
external interface RenderingContext\n\n    public external interface HTMLOrSVGImageElement :
    CanvasImageSource\n\n    public external interface CanvasImageSource : ImageBitmapSource\n\n    public external
interface ImageBitmapSource\n\n    public external interface HTMLOrSVGScriptElement\n\n    /* please, don't
implement this interface!
*/\n\n    @JsName("null")\n    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n    public external
interface DocumentReadyState {\n    companion object\n    }\n\n    public inline val
    DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
    "loading".asDynamic().unsafeCast<DocumentReadyState>()\n\n    public
    inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
    "interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\n    public inline val
    DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
    "complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n    /* please, don't implement this interface!
*/\n\n    @JsName("null")\n    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n    public external

```

```

interface CanPlayTypeResult {\n  companion object\n}\n\npublic inline val
CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() =
"\n".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val CanPlayTypeResult.Companion.MAYBE:
CanPlayTypeResult get() = "\nmaybe\n".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
"\nprobably\n".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*\n\n@JsName("\nnull\n")\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic
external interface TextTrackMode {\n  companion object\n}\n\npublic inline val
TextTrackMode.Companion.DISABLED: TextTrackMode get() =
"\ndisabled\n".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
"\nhidden\n".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
"\nshowing\n".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName("\nnull\n")\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic external
interface TextTrackKind {\n  companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES:
TextTrackKind get() = "\nsubtitles\n".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
"\ncaptions\n".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
"\ndescriptions\n".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
"\nchapters\n".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
"\nmetadata\n".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\n\n@JsName("\nnull\n")\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic external
interface SelectionMode {\n  companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT:
SelectionMode get() = "\nselect\n".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.START: SelectionMode get() =
"\nstart\n".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END:
SelectionMode get() = "\nend\n".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.PRESERVE: SelectionMode get() =
"\npreserve\n".asDynamic().unsafeCast<SelectionMode>()\n\n/*
please, don't implement this interface!
*\n\n@JsName("\nnull\n")\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic external
interface CanvasFillRule {\n  companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = "\nnonzero\n".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
"\nevenodd\n".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@JsName("\nnull\n")\n@Suppress("\nNESTED_CLASS_IN_EXTERNAL_INTERFACE\n")\n\npublic external
interface ImageSmoothingQuality {\n  companion object\n}\n\npublic inline val
ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() =
"\nlow\n".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
"\nmedium\n".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH:
ImageSmoothingQuality get() = "\nhigh\n".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't
implement this interface!

```

```

*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CanvasLineCap {\n  companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT:
CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.ROUND: CanvasLineCap get() =
"round".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE:
CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this
interface! */\n\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface CanvasLineJoin {\n  companion object\n}\n\npublic inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
"round".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
"miter".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface! */
*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CanvasTextAlign {\n  companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.END: CanvasTextAlign get() =
"end".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = "left".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
"right".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
"center".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/*
please, don't implement this interface! */
*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CanvasTextBaseline {\n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = "top".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
"hanging".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
"middle".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
"alphabetic".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
"ideographic".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM:
CanvasTextBaseline get() = "bottom".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't
implement this interface! */
*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CanvasDirection {\n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = "ltr".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
"rtl".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT:
CanvasDirection get() = "inherit".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this
interface! */\n\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface ScrollRestoration {\n  companion object\n}\n\npublic inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
"auto".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic

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inline val ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ImageOrientation {\n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE:
ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val
ImageOrientation.Companion.FLIPY: ImageOrientation get() =
\"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get()
= \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ColorSpaceConversion {\n  companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
\"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ResizeQuality {\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic
inline val ResizeQuality.Companion.LOW: ResizeQuality get() =
\"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface BinaryType {\n  companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
\"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface WorkerType {\n  companion object\n}\n\npublic inline val
WorkerType.Companion.CLASSIC: WorkerType get() =
\"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this
interface! *\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface ShadowRootMode {\n  companion object\n}\n\npublic inline val
ShadowRootMode.Companion.OPEN: ShadowRootMode get() =
\"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ScrollBehavior {\n  companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT:

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ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ScrollLogicalPosition {\n    companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
\"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CSSBoxType {\n    companion object\n}\n\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
\"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
\"content\".asDynamic().unsafeCast<CSSBoxType>()\" , /*\n\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n *\n\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\n\npackage org.w3c.fetch\n\n\nimport
kotlin.js.*\n\nimport org.khronos.webgl.*\n\nimport org.w3c.files.*\n\nimport org.w3c.xr.*\n\n\n/**\n\n * Exposes the
JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n\n *\n\n\npublic external open
class Headers(init: dynamic = definedExternally) {\n    fun append(name: String, value: String)\n    fun delete(name:
String)\n    fun get(name: String): String?\n    fun has(name: String): Boolean\n    fun set(name: String, value:
String)\n}\n\n\n/**\n\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n\n *\n\n\npublic external interface Body {\n    val bodyUsed: Boolean\n    fun arrayBuffer():
Promise<ArrayBuffer>\n    fun blob(): Promise<Blob>\n    fun formData(): Promise<FormData>\n    fun json():
Promise<Any?>\n    fun text(): Promise<String>\n}\n\n\n/**\n\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n\n *\n\n\npublic external open class
Request(input: dynamic,
init: RequestInit = definedExternally) : Body {\n    open val method: String\n    open val url: String\n    open val
headers: Headers\n    open val type: RequestType\n    open val destination: RequestDestination\n    open val referrer:
String\n    open val referrerPolicy: dynamic\n    open val mode: RequestMode\n    open val credentials:
RequestCredentials\n    open val cache: RequestCache\n    open val redirect: RequestRedirect\n    open val integrity:
String\n    open val keepalive: Boolean\n    override val bodyUsed: Boolean\n    fun clone(): Request\n    override
fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData():
Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n}\n\n\npublic
external interface RequestInit {\n    var method: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var headers: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
    var body: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var referrer: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
    var referrerPolicy: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var mode:
RequestMode?\n    get() = definedExternally\n    set(value) = definedExternally\n    var credentials:

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RequestCredentials? \n    get() = definedExternally \n    set(value) = definedExternally \n    var cache:
RequestCache? \n    get() = definedExternally \n    set(value) = definedExternally \n    var redirect:
RequestRedirect? \n    get() = definedExternally \n    set(value) = definedExternally \n    var integrity: String? \n
    get() = definedExternally \n    set(value) = definedExternally \n    var keepalive: Boolean? \n    get() =
definedExternally \n    set(value) = definedExternally \n    var window:
Any? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun RequestInit(method: String? =
undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy:
dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache:
RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive:
Boolean? = undefined, window: Any? = undefined): RequestInit { \n    val o = js("{}") \n    o["method"] =
method \n    o["headers"] = headers \n    o["body"] = body \n    o["referrer"] = referrer \n    o["referrerPolicy"] =
referrerPolicy \n    o["mode"] = mode \n    o["credentials"] = credentials \n    o["cache"] = cache \n    o["redirect"] =
redirect \n    o["integrity"] = integrity \n    o["keepalive"] = keepalive \n    o["window"]
= window \n    return o \n} \n \n /** \n * Exposes the JavaScript
[Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin \n * \n public external open class
Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body { \n    open val type:
ResponseType \n    open val url: String \n    open val redirected: Boolean \n    open val status: Short \n    open val ok:
Boolean \n    open val statusText: String \n    open val headers: Headers \n    open val body: dynamic \n    open val
trailer: Promise<Headers> \n    override val bodyUsed: Boolean \n    fun clone(): Response \n    override fun
arrayBuffer(): Promise<ArrayBuffer> \n    override fun blob(): Promise<Blob> \n    override fun formData():
Promise<FormData> \n    override fun json(): Promise<Any?> \n    override fun text(): Promise<String> \n \n
companion object { \n    fun error(): Response \n    fun redirect(url: String, status: Short = definedExternally):
Response \n    } \n} \n \n public external
interface ResponseInit { \n    var status: Short? /* = 200 */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var statusText: String? /* = "OK" */ \n    get() = definedExternally \n    set(value) =
definedExternally \n    var headers: dynamic \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER") \n @kotlin.internal.InlineOnly \n public inline fun ResponseInit(status: Short? = 200,
statusText: String? = "OK", headers: dynamic = undefined): ResponseInit { \n    val o = js("{}") \n    o["status"]
= status \n    o["statusText"] = statusText \n    o["headers"] = headers \n    return o \n} \n \n /** please, don't implement
this interface! \n * \n @JsName("null") \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public
external interface RequestType { \n    companion object \n} \n \n public inline val RequestType.Companion.EMPTY:
RequestType get() = "" \n \n public
inline val RequestType.Companion.AUDIO: RequestType get() =
"audio" \n \n public inline val RequestType.Companion.FONT:
RequestType get() = "font" \n \n public inline val
RequestType.Companion.IMAGE: RequestType get() =
"image" \n \n public inline val RequestType.Companion.SCRIPT:
RequestType get() = "script" \n \n public inline val
RequestType.Companion.STYLE: RequestType get() =
"style" \n \n public inline val RequestType.Companion.TRACK:
RequestType get() = "track" \n \n public inline val
RequestType.Companion.VIDEO: RequestType get() = "video" \n \n /**
please, don't implement this interface! \n * \n @JsName("null") \n @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE") \n public
external interface RequestDestination

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    {\n    companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get()
= \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic
inline val RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic
inline val RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestMode {\n    companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestCredentials
    {\n    companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() =
\"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestCache {\n    companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT:

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RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.NO_STORE: RequestCache get() = "no-
store".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD:
RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()\n\npublic
inline val RequestCache.Companion.NO_CACHE: RequestCache get() = "no-
cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-
cache".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-
cached".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*/\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface RequestRedirect {\n    companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW:
RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.ERROR: RequestRedirect get() =
"error".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL:
RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ResponseType {\n    companion object\n}\n\npublic inline val ResponseType.Companion.BASIC:
ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.CORS: ResponseType get() =
"cors".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT:
ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.ERROR: ResponseType get() =
"error".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE:
ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
"opaqueredirect".asDynamic().unsafeCast<ResponseType>()", /*\n\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming

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Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See
github.com/kotlin/dukat for details\n\n\npackage org.w3c.dom.mediacapture\n\n\nimport kotlin.js.*\n\nimport
org.khronos.webgl.*\n\nimport org.w3c.dom.*\n\nimport org.w3c.dom.events.*\n\n\n/*\n\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n\n */\n\npublic external open
class MediaStream() : EventTarget, MediaProvider {\n    constructor(stream: MediaStream)\n    constructor(tracks:
Array<MediaStreamTrack>)\n    open val id: String\n    open val active: Boolean\n    var onaddtrack:
((MediaStreamTrackEvent) -> dynamic)?\n    var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n    fun
getAudioTracks(): Array<MediaStreamTrack>\n    fun getVideoTracks(): Array<MediaStreamTrack>\n    fun
getTracks(): Array<MediaStreamTrack>\n\n    fun getTrackById(trackId: String): MediaStreamTrack?\n    fun
addTrack(track: MediaStreamTrack)\n    fun
removeTrack(track: MediaStreamTrack)\n    fun clone(): MediaStream\n}\n\n\n/*\n\n * Exposes the JavaScript
[MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n\n */\n\npublic
external abstract class MediaStreamTrack : EventTarget {\n    open val kind: String\n    open val id: String\n    open
val label: String\n    open var enabled: Boolean\n    open val muted: Boolean\n    open var onmute: ((Event) ->
dynamic)?\n    open var onunmute: ((Event) -> dynamic)?\n    open val readyState: MediaStreamTrackState\n    open
var onended: ((Event) -> dynamic)?\n    open var onoverconstrained: ((Event) -> dynamic)?\n    fun clone():
MediaStreamTrack\n    fun stop()\n    fun getCapabilities(): MediaTrackCapabilities\n    fun getConstraints():
MediaTrackConstraints\n    fun getSettings(): MediaTrackSettings\n    fun applyConstraints(constraints:

```

## MediaTrackConstraints

```
= definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript  
[MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\n */\npublic external interface MediaTrackSupportedConstraints {\n    var width: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var height: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var aspectRatio: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var frameRate: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var resizeMode: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var volume: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleRate: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleSize: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var echoCancellation: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var autoGainControl: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var noiseSuppression: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var latency: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var channelCount: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var deviceId: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n    var groupId: Boolean? /* = true */\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun  
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n    val o = js(\"({})\")\n    o[\"width\"] = width\n    o[\"height\"] = height\n    o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n    o[\"facingMode\"] = facingMode\n    o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n    o[\"sampleRate\"] = sampleRate\n    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n    o[\"autoGainControl\"] = autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] = latency\n    o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n    return o\n}\n\npublic external interface  
MediaTrackCapabilities {\n    var width: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var height: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var aspectRatio: DoubleRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var frameRate: DoubleRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var resizeMode: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var volume: DoubleRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleRate: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleSize: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var echoCancellation: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var autoGainControl: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var noiseSuppression: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var latency: DoubleRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var channelCount: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
```

```

deviceId: String?
    get() = definedExternally
    set(value) = definedExternally
    var groupId: String?
    get() = definedExternally
    set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{
    val o = js("{}")
    o["width"]
    = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"] = sampleSize
    o["echoCancellation"] =
echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] =
groupId
    return o
}
**
* Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin
*
public external interface MediaTrackConstraints : MediaTrackConstraintSet {
    var advanced:
Array<MediaTrackConstraintSet>
    get() = definedExternally
    set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
public
inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic =
undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined,
facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate:
dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl:
dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount:
dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {
    val o = js("{}")
    o["advanced"] = advanced
    o["width"] = width
    o["height"] = height
    o["aspectRatio"] = aspectRatio
    o["frameRate"] = frameRate
    o["facingMode"] = facingMode
    o["resizeMode"] = resizeMode
    o["volume"] = volume
    o["sampleRate"] = sampleRate
    o["sampleSize"]
    = sampleSize
    o["echoCancellation"] = echoCancellation
    o["autoGainControl"] = autoGainControl
    o["noiseSuppression"] = noiseSuppression
    o["latency"] = latency
    o["channelCount"] = channelCount
    o["deviceId"] = deviceId
    o["groupId"] = groupId
    return o
}
public external interface
MediaTrackConstraintSet {
    var width: dynamic
    get() = definedExternally
    set(value) =
definedExternally
    var height: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var frameRate:
dynamic
    get() = definedExternally
    set(value) = definedExternally
    var facingMode: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var volume: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var sampleSize: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var echoCancellation: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var autoGainControl: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var noiseSuppression: dynamic
    get() =
definedExternally
    set(value) = definedExternally
    var latency: dynamic
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: dynamic
    get() = definedExternally
    set(value) =
definedExternally
    var deviceId: dynamic
    get() = definedExternally
    set(value) = definedExternally
}

```

```

var groupId: dynamic\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =
undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined,
sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined,
autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined,
channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):
MediaTrackConstraintSet {\n    val o = js(\"({})\")\n    o[\"width\"] = width\n    o[\"height\"] = height\n
o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n    o[\"facingMode\"] = facingMode\n
o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n    o[\"sampleRate\"] = sampleRate\n
    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n    o[\"autoGainControl\"] =
autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] = latency\n
o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n\n * public
external interface MediaTrackSettings {\n    var width: Int?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var height: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var
aspectRatio: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var frameRate:
Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var facingMode: String?\n
get() = definedExternally\n        set(value) = definedExternally\n
    var resizeMode: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var volume:
Double?\n        get() = definedExternally\n        set(value) = definedExternally\n    var sampleRate: Int?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var sampleSize: Int?\n        get() = definedExternally\n
set(value) = definedExternally\n    var echoCancellation: Boolean?\n        get() = definedExternally\n
set(value) = definedExternally\n    var autoGainControl: Boolean?\n        get() = definedExternally\n        set(value)
= definedExternally\n    var noiseSuppression: Boolean?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var latency: Double?\n        get() = definedExternally\n        set(value) = definedExternally\n
var channelCount: Int?\n        get() = definedExternally\n        set(value) = definedExternally\n    var deviceId:
String?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var groupId: String?\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? =
undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int?
= undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? =
undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n    val o = js(\"({})\")\n
o[\"width\"] = width\n    o[\"height\"] = height\n    o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] =
frameRate\n    o[\"facingMode\"]
= facingMode\n    o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n    o[\"sampleRate\"] =
sampleRate\n    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n
o[\"autoGainControl\"] = autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] =
latency\n    o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n
return o\n}\n\n/**\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n\n * public
external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n    open val track: MediaStreamTrack\n\n    companion object {\n        val NONE: Short\n        val

```

```

CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n    var track:
MediaStreamTrack?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaStreamTrackEventInit(track:
MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
MediaStreamTrackEventInit {\n    val o = js("{}")\n    o["track"] = track\n    o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n    open val error:
dynamic\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
OverconstrainedErrorEventInit : EventInit {\n    var error: dynamic /* = null */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun OverconstrainedErrorEventInit(error: dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): OverconstrainedErrorEventInit {\n    val o = js("{}")\n    o["error"] =
error\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o\n}\n\n/**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\n\npublic external
abstract class MediaDevices : EventTarget {\n    open var ondevicechange: ((Event) -> dynamic)?\n    fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n    fun getSupportedConstraints():
MediaTrackSupportedConstraints\n    fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\n\npublic
external abstract class MediaDeviceInfo {\n    open val deviceId: String\n    open val kind: MediaDeviceKind\n
open val label: String\n    open val groupId: String\n    fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo {\n    fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin\n */\n\npublic external interface MediaStreamConstraints {\n    var video: dynamic /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var audio: dynamic /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n    val o = js("{}")\n    o["video"]
= video\n    o["audio"] = audio\n    return o\n}\n\npublic external interface ConstrainingPattern {\n    var
onoverconstrained: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n    fun getConstraints(): Constraints\n    fun getSettings(): Settings\n    fun
applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the
JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\n\npublic
external interface DoubleRange {\n    var max: Double?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var min: Double?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DoubleRange(max: Double? =
undefined, min: Double? = undefined): DoubleRange {\n    val o = js("{}")\n
o["max"] = max\n    o["min"] = min\n    return o\n}\n\npublic external interface ConstrainDoubleRange :
DoubleRange {\n    var exact: Double?\n    get() = definedExternally\n    set(value) = definedExternally\n
var ideal: Double?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ConstrainDoubleRange(exact: Double?
= undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined):

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ConstrainDoubleRange {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  o["max"] =
max\n  o["min"] = min\n  return o\n}\n\npublic external interface ULongRange {\n  var max: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var min: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined,
min: Int? = undefined): ULongRange {\n  val o = js("{}")\n  o["max"] = max\n  o["min"] = min\n  return
o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n  var exact: Int?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var ideal: Int?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? =
undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n  val o
= js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  o["max"] = max\n  o["min"] = min\n  return
o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters)
to Kotlin\n * \npublic external interface ConstrainBooleanParameters {\n  var exact: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var ideal: Boolean?\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n  val o = js("{}")\n
o["exact"] = exact\n  o["ideal"] = ideal\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n * \npublic external interface ConstrainDOMStringParameters {\n  var exact: dynamic\n  get() =
definedExternally\n  set(value) = definedExternally\n  var ideal: dynamic\n  get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  return
o\n}\n\npublic external interface Capabilities\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n  val o
= js("{}")\n  return o\n}\n\npublic external interface Settings\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n  val o =
js("{}")\n  return o\n}\n\npublic external interface ConstraintSet\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
val o = js("{}")\n  return o\n}\n\npublic
external interface Constraints : ConstraintSet {\n  var advanced: Array<ConstraintSet>?\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n  val o = js("{}")\n  o["advanced"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*\n*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface MediaStreamTrackState {\n  companion object\n}\n\npublic inline val
MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() =
"live".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
"ended".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!
*\n*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface VideoFacingModeEnum {\n  companion object\n}\n\npublic inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =

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"user".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() =
"environment".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
"left".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
"right".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface VideoResizeModeEnum {\n    companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
"none".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic
inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = "crop-and-
scale".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface MediaDeviceKind {\n    companion object\n}\n\npublic inline val
MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() =
"audioinput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
"audiooutput".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
"videoinput".asDynamic().unsafeCast<MediaDeviceKind>())\n\n/*\n\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt
file.\n\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.mediasource\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n\n * Exposes the JavaScript
[MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n\n *\n\npublic external open
class MediaSource : EventTarget, MediaProvider {\n    open val sourceBuffers: SourceBufferList\n    open val
activeSourceBuffers: SourceBufferList\n    open val readyState: ReadyState\n    var duration: Double\n    var
onsourceopen: ((Event) -> dynamic)?\n    var onsourceended: ((Event) -> dynamic)?\n    var onsourceclose: ((Event)
-> dynamic)?\n    fun addSourceBuffer(type: String): SourceBuffer\n    fun removeSourceBuffer(sourceBuffer:
SourceBuffer)\n    fun endOfStream(error: EndOfStreamError = definedExternally)\n    fun
setLiveSeekableRange(start: Double, end: Double)\n    fun clearLiveSeekableRange()\n\n    companion object {\n        fun isTypeSupported(type: String): Boolean\n    }\n}\n\n/**\n\n * Exposes the JavaScript
[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n\n *\n\npublic external
abstract class SourceBuffer : EventTarget {\n    open var mode: AppendMode\n    open val updating: Boolean\n    open
val buffered: TimeRanges\n    open var timestampOffset: Double\n    open val audioTracks: AudioTrackList\n    open
val videoTracks: VideoTrackList\n    open val textTracks: TextTrackList\n    open var appendWindowStart:
Double\n    open var appendWindowEnd: Double\n    open var onupdatestart: ((Event) -> dynamic)?\n    open var
onupdate: ((Event) -> dynamic)?\n    open var onupdateend: ((Event) -> dynamic)?\n    open var onerror: ((Event) ->
dynamic)?\n    open var onabort: ((Event) -> dynamic)?\n    fun appendBuffer(data: dynamic)\n    fun abort()\n    fun
remove(start: Double, end: Double)\n}\n\n/**\n\n * Exposes the JavaScript
[SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList)
to Kotlin\n\n *\n\npublic external abstract class SourceBufferList : EventTarget {\n    open val length: Int\n    open
var onaddsourcebuffer: ((Event) -> dynamic)?\n    open var onremovesourcebuffer: ((Event) ->
dynamic)?\n}\n\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SourceBufferList.get(index:
Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface!

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*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ReadyState {\n    companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState
get() = "closed".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN:
ReadyState get() = "open".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val
ReadyState.Companion.ENDED: ReadyState get() = "ended".asDynamic().unsafeCast<ReadyState>()\n\n/*
please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface EndOfStreamError {\n    companion object\n}\n\npublic inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =
"network".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
"decode".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface AppendMode {\n    companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS:
AppendMode get() = "segments".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
"sequence".asDynamic().unsafeCast<AppendMode>()"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n//
NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface PointerEventInit : MouseEventInit {\n
var pointerId: Int? /* = 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var width:
Double? /* = 1.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var height: Double? /*
= 1.0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var pressure: Float? /* = 0f */\n
get() = definedExternally\n    set(value) = definedExternally\n    var tangentialPressure: Float? /* = 0f */\n
get() = definedExternally\n    set(value) = definedExternally\n    var tiltX: Int? /*
= 0 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var tiltY: Int? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var twist: Int? /* = 0 */\n    get() = definedExternally\n
set(value) = definedExternally\n    var pointerType: String? /* = "" */\n    get() = definedExternally\n
set(value) = definedExternally\n    var isPrimary: Boolean? /* = false */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0,
width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0,
tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = "", isPrimary: Boolean? = false, screenX: Int? = 0, screenY:
Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short?
= 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? =
false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): PointerEventInit {\n    val o = js("{}")\n    o["pointerId"] = pointerId\n    o["width"] = width\n
o["height"] = height\n    o["pressure"] = pressure\n    o["tangentialPressure"] = tangentialPressure\n
o["tiltX"] = tiltX\n    o["tiltY"] = tiltY\n    o["twist"] = twist\n    o["pointerType"] = pointerType\n
o["isPrimary"]
= isPrimary\n    o["screenX"] = screenX\n    o["screenY"] = screenY\n    o["clientX"] = clientX\n
o["clientY"] = clientY\n    o["button"] = button\n    o["buttons"] = buttons\n    o["relatedTarget"] =

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relatedTarget\n o["region"] = region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"]
= altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] =
modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n

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* Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n
*\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) :
MouseEvent {\n open val pointerId: Int\n open val width: Double\n open val height: Double\n open val
pressure: Float\n open val tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist:
Int\n open val pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }n}"/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```

```

*\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat
for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript

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[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n *\npublic external
abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n
open val dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val
viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE:

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Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external

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interface SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n
set(value) = definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n
set(value) = definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n
set(value) = definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",

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"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun SVGBoundingBoxOptions(fill:
Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false):
SVGBoundingBoxOptions {\n val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"]
= markers\n o["clipped"] = clipped\n return o\n}\n\n/**\n * Exposes the JavaScript

```

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[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform:
SVGAnimatedTransformList\n fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n fun getCTM(): DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:

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Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n
*\npublic external abstract class SVGGeometryElement {\n    open val pathLength:
SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint):
Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n
*\npublic external
abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n
*\npublic external abstract class SVGLength {\n    open val unitType: Short\n    open var value: Float\n    open var
valueInSpecifiedUnits: Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short,
valueInSpecifiedUnits: Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val
SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val
SVG_LENGTHTYPE_PERCENTAGE: Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val
SVG_LENGTHTYPE_EXS: Short\n        val SVG_LENGTHTYPE_PX: Short\n        val
SVG_LENGTHTYPE_CM: Short\n        val SVG_LENGTHTYPE_MM: Short\n        val
SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT: Short\n        val SVG_LENGTHTYPE_PC:
Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n
*\npublic external abstract
class SVGAngle {\n    open val unitType: Short\n    open var value:
Float\n    open var valueInSpecifiedUnits: Float\n    open var valueAsString: String\n    fun
newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n    fun convertToSpecifiedUnits(unitType:
Short)\n\n    companion object {\n        val SVG_ANGLETYPE_UNKNOWN: Short\n        val
SVG_ANGLETYPE_UNSPECIFIED: Short\n        val SVG_ANGLETYPE_DEG: Short\n        val
SVG_ANGLETYPE_RAD: Short\n        val SVG_ANGLETYPE_GRAD: Short\n    }\n}\n\npublic external abstract
class SVGNameList {\n    open val length: Int\n    open val numberOfItems: Int\n    fun clear()\n    fun
initialize(newItem: dynamic): dynamic\n    fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n    fun
replaceItem(newItem: dynamic, index: Int): dynamic\n    fun removeItem(index: Int): dynamic\n    fun
appendItem(newItem: dynamic): dynamic\n    fun getItem(index: Int):
dynamic\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index:
Int): dynamic = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript

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[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n \*^npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int): SVGNumber\n}\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/\*\*\n \* Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n \*^npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int): SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int): SVGLength\n}\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n \*^npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal: Boolean\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n \*^npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val animVal: Short\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n \*^npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal: Int\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n \*^npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal: Float\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n \*^npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal: SVGLength\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n \*^npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal: SVGAngle\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n \*^npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n \*^npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val animVal: DOMRectReadOnly\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n \*^npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val animVal: SVGNumberList\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n

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*\npublic external abstract class SVGAnimatedLengthList {\n  open val baseVal: SVGLengthList\n  open val animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n */\npublic external abstract class SVGStringList {\n  open val length: Int\n  open val numberOfItems: Int\n  fun clear()\n  fun initialize(newItem: String): String\n  fun insertItemBefore(newItem: String, index: Int): String\n  fun replaceItem(newItem: String, index: Int): String\n  fun removeItem(index: Int): String\n  fun appendItem(newItem: String): String\n  fun getItem(index: Int): String\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n */\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGUnitTypes {\n  companion object {\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n */\npublic external interface SVGTTests {\n  val requiredExtensions: SVGStringList\n  val systemLanguage: SVGStringList\n}\n\npublic external interface SVGFitToViewBox {\n  val viewBox: SVGAnimatedRect\n  val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n */\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGZoomAndPan {\n  var zoomAndPan: Short\n\n  companion object {\n    val SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val SVG_ZOOMANDPAN_MAGNIFY: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\npublic external interface SVGURIReference {\n  val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n  open val x: SVGAnimatedLength\n  open val y: SVGAnimatedLength\n  open val width: SVGAnimatedLength\n  open val height: SVGAnimatedLength\n  open var currentScale: Float\n  open val currentTranslate: DOMPointReadOnly\n  fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n  fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n  fun deselectAll()\n  fun createSVGNumber(): SVGNumber\n  fun createSVGLength(): SVGLength\n  fun createSVGAngle(): SVGAngle\n  fun createSVGPoint(): DOMPoint\n  fun createSVGMatrix(): DOMMatrix\n  fun createSVGRect(): DOMRect\n  fun createSVGTransform(): SVGTransform\n  fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n  fun getElementById(elementId: String): Element\n  fun suspendRedraw(maxWaitMilliseconds: Int): Int\n  fun unsuspendRedraw(suspendHandleID: Int)\n  fun unsuspendRedrawAll()\n  fun forceRedraw()\n\n  companion object {\n    val SVG_ZOOMANDPAN_UNKNOWN: Short\n    val SVG_ZOOMANDPAN_DISABLE: Short\n    val SVG_ZOOMANDPAN_MAGNIFY: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n  }\n}

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PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n
    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val
DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n
*/\npublic external abstract class SVGGElement : SVGGraphicsElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n
            val DOCUMENT_POSITION_DISCONNECTED: Short\n            val DOCUMENT_POSITION_PRECEDING:
Short\n            val DOCUMENT_POSITION_FOLLOWING: Short\n            val
DOCUMENT_POSITION_CONTAINS: Short\n            val DOCUMENT_POSITION_CONTAINED_BY: Short\n
            val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
            val DOCUMENT_POSITION_FOLLOWING: Short\n
            val DOCUMENT_POSITION_CONTAINS: Short\n            val DOCUMENT_POSITION_CONTAINED_BY:
Short\n            val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes
the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n
*/\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
            val DOCUMENT_POSITION_FOLLOWING: Short\n            val DOCUMENT_POSITION_CONTAINS:
Short\n            val DOCUMENT_POSITION_CONTAINED_BY: Short\n            val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }\n}\n\n/**\n * Exposes the JavaScript
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n
*/\npublic external abstract class SVGDescElement : SVGElement {\n    companion object {\n        val
ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
            val DOCUMENT_POSITION_FOLLOWING: Short\n            val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*\npublic external abstract class SVGMetadataElement : SVGElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n
*\npublic
external abstract class SVGTitleElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to
Kotlin\n
*\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n
    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n       
val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n
*\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open
val height: SVGAnimatedLength\n    open val instanceRoot: SVGElement?\n    open val animatedInstanceRoot:
SVGElement?\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE:
Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n

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val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
open class SVGUseElementShadowRoot : ShadowRoot {\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
SVGElementInstance {\n    val correspondingElement: SVGElement?\n        get() = definedExternally\n    val
correspondingUseElement: SVGUseElement?\n        get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE:
Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\n\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open var media:
String\n    open var title: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n */\n\npublic external
abstract class SVGTransform {\n    open val type: Short\n    open val matrix: DOMMatrix\n    open val angle:
Float\n    fun setMatrix(matrix: DOMMatrixReadOnly)\n    fun setTranslate(tx: Float, ty:
Float)\n    fun setScale(sx: Float, sy: Float)\n    fun setRotate(angle: Float, cx: Float, cy: Float)\n    fun
setSkewX(angle: Float)\n    fun setSkewY(angle: Float)\n\n    companion object {\n        val
SVG_TRANSFORM_UNKNOWN: Short\n        val SVG_TRANSFORM_MATRIX: Short\n        val
SVG_TRANSFORM_TRANSLATE: Short\n        val SVG_TRANSFORM_SCALE: Short\n        val
SVG_TRANSFORM_ROTATE: Short\n        val SVG_TRANSFORM_SKEWX: Short\n        val

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SVG_TRANSFORM_SKEWY: Short\n } \n\n/**\n * Exposes the JavaScript
[SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n *\npublic
external abstract class SVGTransformList {\n open val length: Int\n open val numberOfItems: Int\n fun
clear()\n fun initialize(newItem: SVGTransform): SVGTransform\n fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n fun replaceItem(newItem: SVGTransform, index: Int):
SVGTransform\n fun removeItem(index: Int): SVGTransform\n
fun appendItem(newItem: SVGTransform): SVGTransform\n fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n fun consolidate(): SVGTransform?\n fun getItem(index: Int):
SVGTransform\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index:
Int, newItem: SVGTransform) { asDynamic()[index] = newItem } \n\n/**\n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n *\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal:
SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio)
to Kotlin\n *\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var
meetOrSlice: Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n
val SVG_PRESERVEASPECTRATIO_NONE: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n val
SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n val SVG_MEETORSlice_UNKNOWN: Short\n
val SVG_MEETORSlice_MEET: Short\n val SVG_MEETORSlice_SLICE: Short\n } \n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio)
to Kotlin\n *\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal:
SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n *\npublic
external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING:
Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n}\n\n/**\n * Exposes the JavaScript
[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n *\npublic

```

```

external abstract class SVGRectElement : SVGGeometryElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin */
@public
external abstract class SVGCircleElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val r: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin */
@public
external abstract class SVGEllipseElement : SVGGeometryElement {
    open val cx: SVGAnimatedLength
    open val cy: SVGAnimatedLength
    open val rx: SVGAnimatedLength
    open val ry: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin */
@public
external abstract class SVGLineElement : SVGGeometryElement {
    open val x1: SVGAnimatedLength
    open val y1: SVGAnimatedLength
    open val x2: SVGAnimatedLength
    open val y2: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
    }
}

```

```

    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n */\npublic
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n */\npublic
external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val animatedPoints:
SVGPointList\n}\n\npublic external abstract class SVGPointList {\n    open val length: Int\n    open val
numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: DOMPoint): DOMPoint\n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n    fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint\n    fun removeItem(index: Int): DOMPoint\n    fun appendItem(newItem: DOMPoint):
DOMPoint\n    fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int):
DOMPoint? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n */\npublic
external abstract class SVGPolylineElement
: SVGGeometryElement, SVGAnimatedPoints {\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n */\npublic
external abstract
class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n}\n}\n\n/**\n * Exposes the JavaScript

```

[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n\*/\npublic

```
external abstract class SVGTextContentElement : SVGGraphicsElement {\n    open val textLength: SVGAnimatedLength\n    open val lengthAdjust: SVGAnimatedEnumeration\n    fun getNumberOfChars(): Int\n    fun getComputedTextLength(): Float\n    fun getSubStringLength(charnum: Int, nchars: Int): Float\n    fun getStartPositionOfChar(charnum: Int): DOMPoint\n    fun getEndPositionOfChar(charnum: Int): DOMPoint\n    fun getExtentOfChar(charnum: Int): DOMRect\n    fun getRotationOfChar(charnum: Int): Float\n    fun getCharNumAtPosition(point: DOMPoint): Int\n    fun selectSubString(charnum: Int, nchars: Int)\n\n    companion object {\n        val LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
```

[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin\n\*/\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n open val x: SVGAnimatedLengthList\n open val y: SVGAnimatedLengthList\n open val dx: SVGAnimatedLengthList\n open val dy: SVGAnimatedLengthList\n open val rotate: SVGAnimatedNumberList\n\n companion object {\n val

```
LENGTHADJUST_UNKNOWN: Short\n        val LENGTHADJUST_SPACING: Short\n        val LENGTHADJUST_SPACINGANDGLYPHS: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
```

[SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n\*/\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n \*/\n\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n \*/\n\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n open val startOffset: SVGAnimatedLength\n open val method: SVGAnimatedEnumeration\n open val spacing: SVGAnimatedEnumeration\n\n companion object {\n val TEXTPATH\_METHODTYPE\_UNKNOWN: Short\n val TEXTPATH\_METHODTYPE\_ALIGN: Short\n val TEXTPATH\_METHODTYPE\_STRETCH: Short\n val TEXTPATH\_SPACINGTYPE\_UNKNOWN: Short\n val TEXTPATH\_SPACINGTYPE\_AUTO: Short\n val TEXTPATH\_SPACINGTYPE\_EXACT: Short\n val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n \*/\n\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }\n}\n\n/\*\*\n \* Exposes the JavaScript

[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin

```

public external abstract class SVGForeignObjectElement : SVGGraphicsElement {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

public external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {
    open val refX: SVGAnimatedLength
    open val refY: SVGAnimatedLength
    open val markerUnits: SVGAnimatedEnumeration
    open val markerWidth: SVGAnimatedLength
    open val markerHeight: SVGAnimatedLength
    open val orientType: SVGAnimatedEnumeration
    open val orientAngle: SVGAnimatedAngle
    open var orient: String
    fun setOrientToAuto()
    fun setOrientToAngle(angle: SVGAngle)
    companion object {
        val SVG_MARKERUNITS_UNKNOWN: Short
        val SVG_MARKERUNITS_USERSPACEONUSE: Short
        val SVG_MARKERUNITS_STROKEWIDTH: Short
        val SVG_MARKER_ORIENT_UNKNOWN: Short
        val SVG_MARKER_ORIENT_AUTO: Short
        val SVG_MARKER_ORIENT_ANGLE: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

}

/** Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin

public external abstract class SVGSolidcolorElement : SVGElement {
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

}

/** Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin

public external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {
    open val gradientUnits: SVGAnimatedEnumeration
    open val gradientTransform: SVGAnimatedTransformList
    open val spreadMethod: SVGAnimatedEnumeration
    companion object {
        val SVG_SPREADMETHOD_UNKNOWN: Short
        val SVG_SPREADMETHOD_PAD: Short
        val SVG_SPREADMETHOD_REFLECT: Short
        val SVG_SPREADMETHOD_REPEAT: Short
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
    }
}

```



```

SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n
    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1:
SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val
y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n
        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val
SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin\n\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n    open val cx:
SVGAnimatedLength\n    open val cy: SVGAnimatedLength\n    open val r: SVGAnimatedLength\n    open val fx:
SVGAnimatedLength\n
    open val fy: SVGAnimatedLength\n    open val fr: SVGAnimatedLength\n\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING:
Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val
DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement {\n    companion object {\n        val

```

```

SVG_SPREADMETHOD_UNKNOWN: Short\n    val SVG_SPREADMETHOD_PAD: Short\n    val
SVG_SPREADMETHOD_REFLECT: Short\n    val SVG_SPREADMETHOD_REPEAT: Short\n    val
SVG_UNIT_TYPE_UNKNOWN: Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE:
Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n
val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
abstract class SVGMeshrowElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE:
Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE:
Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS:
Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n    companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n
*\n\npublic external abstract class SVGStopElement : SVGElement {\n    open val offset: SVGAnimatedNumber\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY:
Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to
Kotlin\n
*\n\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox,
SVGURIReference, SVGUnitTypes {\n    open val patternUnits: SVGAnimatedEnumeration\n    open val
patternContentUnits: SVGAnimatedEnumeration\n    open val patternTransform: SVGAnimatedTransformList\n

```

```

open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n
open val height: SVGAnimatedLength\n\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN:
Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n
val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGHatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val
DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val
NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external
abstract class SVGHatchpathElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED:
Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\n\npublic
external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n
val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val
DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes
the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\n\npublic
external abstract class SVGScriptElement : SVGElement, SVGURIReference,

```

```

HTMLorSVGScriptElement {
    open var type: String
    open var crossOrigin: String?
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin
 *
 * public external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {
    open val target: SVGAnimatedString
    open val download: SVGAnimatedString
    open val rel: SVGAnimatedString
    open val relList: SVGAnimatedString
    open val hreflang: SVGAnimatedString
    open val type: SVGAnimatedString
    companion object {
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/** Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin
 *
 * public external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {
    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
        val ELEMENT_NODE: Short
        val ATTRIBUTE_NODE: Short
        val TEXT_NODE: Short
        val CDATA_SECTION_NODE: Short
        val ENTITY_REFERENCE_NODE: Short
        val ENTITY_NODE: Short
        val PROCESSING_INSTRUCTION_NODE: Short
        val COMMENT_NODE: Short
        val DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
        val NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENT_POSITION_CONTAINED_BY: Short
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

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 *
 * NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
 * See github.com/kotlin/dukat for details
 * package org.w3c.files
 * import kotlin.js.*
 * import org.khronos.webgl.*
 * import org.w3c.dom.*
 * import org.w3c.dom.events.*
 * import org.w3c.xhr.*
 *
 * /** Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin
 *
 * public external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
    MediaProvider, ImageBitmapSource {
    open val size: Number
    open val type: String
    open val isClosed: Boolean
    fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob
    fun close()
}

public external interface BlobPropertyBag {
    var type: String? /*

```

```

= \" *\\n    get() = definedExternally\\n    set(value) =
definedExternally\\n}\\n\\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\\n@kotlin.internal.InlineOnly\\npublic
inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\\n    val o = js(\"({})\")\\n    o[\"type\"] = type\\n
return o\\n}\\n\\n/**\\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to
Kotlin\\n *\\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag =
definedExternally) : Blob {\\n    open val name: String\\n    open val lastModified: Int?\\n}\\n\\npublic external interface
FilePropertyBag : BlobPropertyBag {\\n    var lastModified: Int?\\n        get() = definedExternally\\n        set(value) =
definedExternally\\n}\\n\\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\\n@kotlin.internal.InlineOnly\\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag {\\n    val o = js(\"({})\")\\n    o[\"lastModified\"] = lastModified\\n
o[\"type\"] = type\\n    return o\\n}\\n\\n/**\\n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList)
to Kotlin\\n *\\npublic external abstract class FileList : ItemArrayLike<File> {\\n    override fun item(index: Int):
File?\\n}\\n\\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\\n@kotlin.internal.InlineOnly\\npublic inline operator fun FileList.get(index: Int): File?
= asDynamic()[index]\\n\\n/**\\n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\\n *\\npublic external open class
FileReader : EventTarget {\\n    open val readyState: Short\\n    open val result: dynamic\\n    open val error:
dynamic\\n    var onloadstart: ((ProgressEvent) -> dynamic)?\\n    var onprogress: ((ProgressEvent) -> dynamic)?\\n
var onload: ((Event) -> dynamic)?\\n    var onabort: ((Event) -> dynamic)?\\n    var onerror: ((Event) -> dynamic)?\\n
var onloadend: ((Event) -> dynamic)?\\n    fun readAsArrayBuffer(blob: Blob)\\n    fun readAsBinaryString(blob:
Blob)\\n    fun readAsText(blob: Blob, label: String = definedExternally)\\n    fun
readAsDataURL(blob: Blob)\\n    fun abort()\\n    companion object {\\n        val EMPTY: Short\\n        val
LOADING: Short\\n        val DONE: Short\\n    }\\n}\\n\\n/**\\n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\\n *\\npublic external
open class FileReaderSync {\\n    fun readAsArrayBuffer(blob: Blob): ArrayBuffer\\n    fun readAsBinaryString(blob:
Blob): String\\n    fun readAsText(blob: Blob, label: String = definedExternally): String\\n    fun
readAsDataURL(blob: Blob): String\\n}\\n,\"/*\\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming
Language contributors.\\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\\n *\\n\\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\\n\\n// See
github.com/kotlin/dukat for details\\n\\npackage org.w3c.notifications\\n\\nimport kotlin.js.*\\nimport
org.khronos.webgl.*\\nimport org.w3c.dom.events.*\\nimport org.w3c.workers.*\\n\\n/**\\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\\n
*\\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) :
EventTarget {\\n    var onclick: ((MouseEvent) -> dynamic)?\\n    var onerror: ((Event) -> dynamic)?\\n    open val
title: String\\n    open val dir: NotificationDirection\\n    open val lang: String\\n    open val body: String\\n    open val
tag: String\\n    open val image: String\\n    open val icon: String\\n    open val badge: String\\n    open val sound:
String\\n    open val vibrate: Array<out Int>\\n    open val timestamp: Number\\n    open val renotify: Boolean\\n
open val silent: Boolean\\n    open val noscreen: Boolean\\n    open val requireInteraction: Boolean\\n    open val
sticky: Boolean\\n    open val data: Any?\\n    open val actions: Array<out NotificationAction>\\n    fun close()\\n    companion object {\\n        val permission: NotificationPermission\\n
        val maxActions: Int\\n        fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit =
definedExternally): Promise<NotificationPermission>\\n    }\\n}\\n\\npublic external interface NotificationOptions {\\n
var dir: NotificationDirection? /* = NotificationDirection.AUTO */\\n    get() = definedExternally\\n    set(value)
= definedExternally\\n    var lang: String? /* = \" */\\n    get() = definedExternally\\n    set(value) =
definedExternally\\n    var body: String? /* = \" */\\n    get() = definedExternally\\n    set(value) =
definedExternally\\n    var tag: String? /* = \" */\\n    get() = definedExternally\\n    set(value) =

```

```

definedExternally\n    var image: String?\n        get() = definedExternally\n        set(value) = definedExternally\n
var icon: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var badge: String?\n
get() = definedExternally\n    set(value) = definedExternally\n
    var sound: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var vibrate:
dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var timestamp: Number?\n
get() = definedExternally\n    set(value) = definedExternally\n    var renotify: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var silent: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var noscreen: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var requireInteraction: Boolean? /* = false */\n    get()
= definedExternally\n    set(value) = definedExternally\n    var sticky: Boolean? /* = false */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var data: Any? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n
    var actions: Array<NotificationAction>? /* = arrayOf() */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir:
NotificationDirection? = NotificationDirection.AUTO, lang: String? = "", body: String? = "", tag: String? = "",
image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined,
vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =
false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null,
actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n    val o = js("{}")\n    o["dir"] = dir\n
o["lang"] = lang\n    o["body"] = body\n    o["tag"] = tag\n    o["image"] = image\n    o["icon"] = icon\n
o["badge"] = badge\n
    o["sound"] = sound\n    o["vibrate"] = vibrate\n    o["timestamp"] = timestamp\n    o["renotify"] = renotify\n
o["silent"] = silent\n    o["noscreen"] = noscreen\n    o["requireInteraction"] = requireInteraction\n
o["sticky"] = sticky\n    o["data"] = data\n    o["actions"] = actions\n    return o\n}\n\npublic external interface
NotificationAction {\n    var action: String?\n    var title: String?\n    var icon: String?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?,
title: String?, icon: String? = undefined): NotificationAction {\n    val o = js("{}")\n    o["action"] = action\n
o["title"] = title\n    o["icon"] = icon\n    return o\n}\n\npublic external interface GetNotificationOptions {\n    var
tag: String? /* = "" */\n    get() = definedExternally\n    set(value)
= definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? =
""): GetNotificationOptions {\n    val o = js("{}")\n    o["tag"] = tag\n    return o\n}\n\n/** Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\n\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n    open val notification: Notification\n    open val action: String\n\n    companion object {\n
val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n    var action: String? /* = "" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n    val o = js("{}")\n    o["notification"] = notification\n    o["action"] =
action\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o\n}\n\n/* please, don't implement this interface!
*/\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface NotificationPermission {\n    companion object\n}\n\npublic inline val

```

```

NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
    \"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
    \"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic
    inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() =
    \"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!
    *\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface NotificationDirection {\n    companion object\n}\n\npublic inline val
NotificationDirection.Companion.AUTO: NotificationDirection get() =
    \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
    \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
    \"rtl\".asDynamic().unsafeCast<NotificationDirection>()\n\n/*\n\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n *\n\n// NOTE:
    THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\n\npackage
org.w3c.workers\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\n\n/*\n\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n\n *\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n    open val scriptURL: String\n    open val state:
ServiceWorkerState\n    open var onstatechange: ((Event) -> dynamic)?\n    fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/*\n\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n\n *\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n    open val installing:
ServiceWorker?\n    open val waiting: ServiceWorker?\n    open val active: ServiceWorker?\n    open val scope:
String\n    open var onupdatefound: ((Event) -> dynamic)?\n    open val APISpace: dynamic\n    fun update():
Promise<Unit>\n    fun unregister(): Promise<Boolean>\n    fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n    fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n    fun methodName(): Promise<dynamic>\n}\n\n/*\n\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n\n
*\n\npublic external abstract class ServiceWorkerContainer : EventTarget {\n    open val controller:
ServiceWorker?\n    open val ready: Promise<ServiceWorkerRegistration>\n    open var oncontrollerchange:
((Event) -> dynamic)?\n    open var onmessage: ((MessageEvent) -> dynamic)?\n    fun register(scriptURL: String,
options:
RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n    fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n    fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n    fun startMessages()\n}\n\n\npublic external interface
RegistrationOptions {\n    var scope: String?\n    get() = definedExternally\n    set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC *\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n    val o = js(\"{\}\")\n
o[\"scope\"] = scope\n    o[\"type\"] = type\n    return o\n}\n\n/*\n\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n\n

```

```

*^public external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n  open val data: Any?\n  open val origin:
String\n  open val lastEventId: String\n  open val source: UnionMessagePortOrServiceWorker?\n  open val
ports: Array<out MessagePort>?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n  var data: Any?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var origin: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var lastEventId: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var source: UnionMessagePortOrServiceWorker?\n  get() = definedExternally\n
set(value) = definedExternally\n
  var ports: Array<MessagePort>?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n  val o =
js(\n"({})")\n  o["data"] = data\n  o["origin"] = origin\n  o["lastEventId"] = lastEventId\n  o["source"] =
source\n  o["ports"] = ports\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n *^public external
abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n  open val clients: Clients\n  open val
registration: ServiceWorkerRegistration\n  open var oninstall: ((Event) -> dynamic)?\n  open var onactivate:
((Event) -> dynamic)?\n  open var onfetch: ((FetchEvent) -> dynamic)?\n  open var onforeignfetch: ((Event) ->
dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  open var onnotificationclick:
((NotificationEvent) -> dynamic)?\n  open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n  open var
onfunctionalevent: ((Event) -> dynamic)?\n  fun skipWaiting(): Promise<Unit>\n}\n\n/**\n * Exposes the
JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n *^public external abstract
class Client : UnionClientOrMessagePortOrServiceWorker {\n  open val url: String\n  open val frameType:
FrameType\n  open val id: String\n  fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n *^public external abstract class WindowClient : Client {\n  open val visibilityState: dynamic\n  open
val focused: Boolean\n  fun focus(): Promise<WindowClient>\n  fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n *^public external abstract class
Clients {\n  fun get(id: String): Promise<Any?>\n  fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n  fun openWindow(url: String): Promise<WindowClient?>\n  fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n  var includeUncontrolled:
Boolean? /* = false */\n  get() = definedExternally\n  set(value) = definedExternally\n  var type:
ClientType? /* = ClientType.WINDOW */\n  get() = definedExternally\n  set(value)
= definedExternally\n}\n\n@Suppress(\n"INVISIBLE_REFERENCE",
\n"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):
ClientQueryOptions {\n  val o = js(\n"({})")\n  o["includeUncontrolled"] = includeUncontrolled\n  o["type"] =
type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n *^public external
open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n  fun

```



```

waitUntil(f: Promise<Any?>)\n\n companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n } }\n\npublic external interface ExtendableEventInit : EventInit\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n    val o = js(\"({})\")\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n    fun registerForeignFetch(options: ForeignFetchOptions)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface ForeignFetchOptions {\n        var scopes: Array<String>?\n        var origins: Array<String>?\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n        val o = js(\"({})\")\n        o[\"scopes\"] = scopes\n        o[\"origins\"] = origins\n        return o\n}\n\n/**\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val clientId: String?\n    open val isReload: Boolean\n    fun respondWith(r: Promise<Response>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface FetchEventInit : ExtendableEventInit {\n        var request: Request?\n        var clientId: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n        var isReload: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n        val o = js(\"({})\")\n        o[\"request\"] = request\n        o[\"clientId\"] = clientId\n        o[\"isReload\"] = isReload\n        o[\"bubbles\"] = bubbles\n        o[\"cancelable\"] = cancelable\n        o[\"composed\"] = composed\n        return o\n}\n\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n\n    public external interface ForeignFetchEventInit : ExtendableEventInit {\n        var request: Request?\n        var origin: String? /* = \"null\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    }\n\n    @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n    @kotlin.internal.InlineOnly\n    public inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\n        val o = js(\"({})\")\n        o[\"request\"] = request\n        o[\"origin\"] = origin\n        o[\"bubbles\"] = bubbles\n        o[\"cancelable\"] = cancelable\n        o[\"composed\"] = composed\n        return o\n}\n\npublic external interface ForeignFetchResponse {\n    var response: Response?\n    var origin: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var headers: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n    val o = js(\"({})\")\n    o[\"response\"] = response\n    o[\"origin\"] = origin\n    o[\"headers\"] = headers\n    return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n */\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =

```

```

definedExternally) : ExtendableEvent {\n  open val data: Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source: UnionClientOrMessagePortOrServiceWorker?\n  open val ports: Array<out MessagePort>?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n\n  public external interface ExtendableMessageEventInit : ExtendableEventInit {\n    var data: Any?\n    get() = definedExternally\n    set(value) = definedExternally\n    var origin: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var lastEventId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var source: UnionClientOrMessagePortOrServiceWorker?\n    get() = definedExternally\n    set(value) = definedExternally\n    var ports: Array<MessagePort>?\n    get() = definedExternally\n    set(value) = definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n    val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"origin\"] = origin\n    o[\"lastEventId\"] = lastEventId\n    o[\"source\"] = source\n    o[\"ports\"] = ports\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n  }\n\n  /**\n   * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n   */\n  public external abstract class Cache {\n    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>\n    fun add(request: dynamic): Promise<Unit>\n    fun addAll(requests: Array<dynamic>): Promise<Unit>\n    fun put(request: dynamic, response: Response): Promise<Unit>\n    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n  }\n\n  public external interface CacheQueryOptions {\n    var ignoreSearch: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var ignoreMethod: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var ignoreVary: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var cacheName: String?\n    get() = definedExternally\n    set(value) = definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\n    val o = js(\"({})\")\n    o[\"ignoreSearch\"] = ignoreSearch\n    o[\"ignoreMethod\"] = ignoreMethod\n    o[\"ignoreVary\"] = ignoreVary\n    o[\"cacheName\"] = cacheName\n    return o\n  }\n\n  public external interface CacheBatchOperation {\n    var type: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var request: Request?\n    get() = definedExternally\n    set(value) = definedExternally\n    var response: Response?\n    get() = definedExternally\n    set(value) = definedExternally\n    var options: CacheQueryOptions?\n    get() = definedExternally\n    set(value) = definedExternally\n  }\n\n  @Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\n    val o = js(\"({})\")\n    o[\"type\"] = type\n    o[\"request\"] = request\n    o[\"response\"] = response\n    o[\"options\"] = options\n    return o\n  }\n\n  /**\n   * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n   */\n  public external abstract class CacheStorage {\n    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n    fun has(cacheName: String): Promise<Boolean>\n    fun open(cacheName: String): Promise<Cache>\n    fun delete(cacheName: String): Promise<Boolean>\n    fun keys():

```

```

Promise<Array<String>>}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ServiceWorkerState {\n  companion object\n}\n\npublic
inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
"installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
"installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
"activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
"activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
"redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface FrameType {\n  companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic
inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-
level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = "none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ClientType {\n  companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
get() = "window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
"sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get()
= "all".asDynamic().unsafeCast<ClientType>()"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n *\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n  open var onloadstart:
((ProgressEvent) -> dynamic)?\n  open var onprogress: ((ProgressEvent) -> dynamic)?\n  open var onabort:
((Event) -> dynamic)?\n  open var onerror: ((Event) -> dynamic)?\n  open var onload: ((Event) -> dynamic)?\n
open var ontimeout:
((Event) -> dynamic)?\n  open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external abstract class
XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n *\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n  var onreadystatechange: ((Event) ->
dynamic)?\n  open val readyState: Short\n  var timeout: Int\n  var withCredentials: Boolean\n  open val upload:
XMLHttpRequestUpload\n  open val responseURL: String\n  open val status: Short\n  open val statusText:
String\n  var responseType: XMLHttpRequestResponseType\n  open val response: Any?\n  open val

```

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responseText: String\n  open val responseXML: Document?\n  fun open(method: String, url: String)\n  fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n  fun setRequestHeader(name:
String, value: String)\n  fun send(body: dynamic = definedExternally)\n  fun abort()\n  fun
getResponseHeader(name: String): String?\n  fun getAllResponseHeaders(): String\n  fun
overrideMimeType(mime: String)\n\n  companion object {\n    val UNSENT: Short\n    val OPENED: Short\n
    val HEADERS_RECEIVED: Short\n    val LOADING: Short\n    val DONE: Short\n  }\n\n  /**\n *
Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n
*\n\n  public external open class FormData(form: HTMLFormElement = definedExternally) {\n  fun append(name:
String, value: String)\n  fun append(name: String, value: Blob, filename: String = definedExternally)\n  fun
delete(name: String)\n  fun get(name: String): dynamic\n  fun getAll(name: String): Array<dynamic>\n  fun
has(name: String): Boolean\n  fun set(name: String, value: String)\n  fun set(name: String, value: Blob, filename:
String = definedExternally)\n}\n\n  /**\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to
Kotlin\n *\n\n  public external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit =
definedExternally) : Event {\n  open val lengthComputable: Boolean\n  open val loaded: Number\n  open val
total: Number\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val
AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n\n  public external interface ProgressEventInit
: EventInit {\n  var lengthComputable: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var loaded: Number? /* = 0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var total: Number? /* = 0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n  @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n  @kotlin.internal.InlineOnly\n  public
inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n  val o
= js(\"({})\")\n  o[\"lengthComputable\"] = lengthComputable\n  o[\"loaded\"] = loaded\n  o[\"total\"] = total\n
o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return o\n}\n\n  /*
please, don't implement this interface!\n\n  */\n\n  @JsName(\"null\")\n  @Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n  public external
interface XMLHttpRequestResponseType {\n  companion object\n}\n\n  public inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
\"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  public inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
\"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  public
inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
\"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  public inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
\"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  public inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
\"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  public inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
\"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n  package kotlin\n\n  import
kotlin.annotation.AnnotationTarget\n\n  /**\n * This annotation marks the standard library API that is considered
experimental and is not subject to the\n * [general compatibility
guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard
library:\n * the behavior of such API
may be changed or the API may be removed completely in any further release.\n * > Beware using the
annotated API especially if you're developing a library, since your library might become binary incompatible\n *

```

with the future versions of the standard library.

Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)` or by using the compiler argument `-opt-in=kotlin.ExperimentalStdlibApi`.

```

@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS)\n\n@MustBeDocumented\n@SinceKotlin("1.3")\npublic annotation class
ExperimentalStdlibApi", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to
infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n *\n *
When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type
arguments of that generic function from the lambda body passed to that parameter.\n *\n * The calls that affect
inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type.
The extensions must be themselves annotated with @BuilderInference.\n *\n * Example: we declare\n * fun
<T> sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T>\n * and use
it like\n *
val result = sequence { yield("result") }\n * Here the type argument of the resulting sequence is inferred to
`String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to
[sequence].\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n
*/\n@Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInferenc
e\npublic annotation class BuilderInference\n\n/**\n * Enables overload selection based on the type of the value
returned from lambda argument.\n *\n * When two or more function overloads have otherwise the same parameter
lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the
type of the value returned from\n * the lambda function passed to this functional parameter.\n *\n * Example:\n *
*/\n * @OverloadResolutionByLambdaReturnType\n *
fun create(intProducer: () -> Int): Int\n * fun create(doubleProducer: () -> Double): Double\n * val
newValue = create { 3.14 }\n * The annotation being applied to one of overloads allows to resolve this
ambiguity by analyzing what value is returned\n * from the lambda function.\n *\n * This annotation is also used to
discriminate the annotated overloads in case if overload selection still cannot\n * choose one of them even taking in
account the result of lambda parameter analysis. In that case a warning is reported.\n *\n * Note: this annotation is
experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n
*/\n@Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\n@Experimental
TypeInference\npublic annotation class OverloadResolutionByLambdaReturnType", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found
in the license/LICENSE.txt file.\n */\npackage kotlin\nimport kotlin.annotation.AnnotationTarget.*\nimport
kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental
multiplatform support API marker.\n *\n * Any usage of a declaration annotated with
@ExperimentalMultiplatform must be accepted either by\n * annotating that usage with the [OptIn] annotation,
e.g. @OptIn(ExperimentalMultiplatform::class)\n * or by using the compiler argument -opt-in=kotlin.ExperimentalMultiplatform.\n *\n * @RequiresOptIn\n * @MustBeDocumented\n * @Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS)\n\n@Retention(AnnotationRetention.BINARY)\npublic annotation class

```

ExperimentalMultiplatform\n\n/\*\*\n \* Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n

\*\n \* This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as `optional`.\n \* Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\n \* to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform,\n \* the annotation entries where it's used are simply erased when compiling code on that platform.\n \*\n \* Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\n

```
*/\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\npublic annotation class OptionalExpectation\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin\nimport kotlin.annotation.AnnotationRetention.*\nimport
```

```
kotlin.annotation.AnnotationTarget.*\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an API that requires an explicit opt-in.\n *\n * Call sites of any declaration that is either annotated with such a marker or mentions in its signature any\n * other declaration that requires opt-in should opt in to the API either by using [OptIn],\n * or by being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.\n *\n * The intended uses of opt-in markers include, but are not limited to the following:\n * - Experimental API for public preview that might change its semantics or affect binary compatibility.\n * - Internal declarations that should not be used outside the declaring library, but are `public` for technical reasons.\n * - Fragile or delicate API that needs a lot of expertise to use and thus require an explicit opt-in.\n *\n * ## Contagiousness\n
```

```
*\n * When a declaration is marked with an opt-in requirement, it is considered to be contagious, meaning that all its uses\n * or mentions in other declarations will require an explicit opt-in.\n * A rule of thumb for propagating is the following: if the marked declaration ceases to exist, only\n * the places with explicit opt-in (or the corresponding warning) will break. This rule does not imply transitivity,\n * e.g. the propagation does not propagate opt-in through inlining, making it the responsibility `inline` function author\n * to mark it properly.\n *\n * ### Type scopes\n *\n * A type is considered requiring opt-in if it is marked with an opt-in marker, or the outer declaration (class or interface) requires opt-in.\n * Any use of any declaration that mentions such type in its signature will require an explicit opt-in, even if it is not used\n * directly on the call site, and even if such declarations do not require opt-in directly.\n *\n * For example, consider the following
```

```
declarations that are marked with non-propagating opt-in:\n * ```\n * @UnstableApi\n * class Unstable\n *\n * @OptIn(UnstableApi::class)\n * fun foo(): Unstable = Unstable()\n *\n * @OptIn(UnstableApi::class)\n * fun bar(arg: Unstable = Unstable()) {\n *\n * @OptIn(UnstableApi::class)\n * fun Unstable?.baz() {\n *\n * and their respective call sites:\n *\n * ```\n * fun outerFun() {\n *     val s = foo()\n *     bar()\n *     null.baz()\n * }\n *\n * Even though call sites do not mention `Unstable` type directly, the corresponding opt-in warning or error will be triggered\n * in each call site due to propagation contagiousness. Note that the propagation is not transitive, i.e. calls to `outerFun`\n * itself would not trigger any further opt-in requirements.\n *\n * ### Lexical scopes\n *\n * If a type requires an opt-in, such requirement is propagated to its lexical scope and all its nested declarations.\n * For example, for the following scope:\n *\n * ```\n * @UnstableApi\n * class
```

```
Unstable {\n *     fun memberFun() = ...\n *\n *     class NestedClass {\n *         fun nestedFun() = ...\n *     }\n *\n * }\n *\n * Any use of `Unstable`, `NestedClass`, or their member functions will require an explicit opt-in.\n *\n * ### Overridden declarations\n *\n * Opt-in markers are also propagated through the inheritance and interface implementation.\n * If the base declaration requires an opt-in, overriding it requires either an explicit opt-in or\n * propagating the opt-in requirement.\n *\n * See also [Kotlin language
```

```
documentation](https://kotlinlang.org/docs/opt-in-requirements.html) for more information.\n *\n * @property message message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n *     The default message is: `This declaration is experimental and its usage should be marked
```

with `Marker` or `@OptIn(Marker::class)`, where `Marker` is the opt-in requirement marker.

`@property level` specifies how usages of API without an explicit opt-in are reported in code.

```

*\/n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\npublic annotation class
RequiresOptIn(\n    val message: String = "",\n    val level: Level = Level.ERROR) {\n    /**\n     * Severity of
the diagnostic that should be reported on usages which did not explicitly opt into
     * the API either by using
[OptIn] or by being annotated with the corresponding marker annotation.\n     *\/n    public enum class Level {\n
/** Specifies that a warning should be reported on incorrect usages of this API. *\n        WARNING,\n        /**
Specifies that a compilation error should be reported on incorrect usages of this API. *\n        ERROR,\n
}\n}\n/n/**\n * Allows to use the API denoted by the given markers in the annotated file, declaration, or
expression.\n * If a declaration is annotated with [OptIn], its usages are **not** required to opt in to that API.\n
**\n * [markerClass] specifies marker annotations that require explicit opt-in. The marker annotation is\n * not
required to be itself marked with [RequiresOptIn] to enable gradual migration of API from requiring opt-in to the
regular one,\n * yet declaring such `OptIn` yields a compilation warning.\n * See also [Kotlin language
documentation](https://kotlinlang.org/docs/opt-in-requirements.html) for more information.\n *\/n * @property
markerClass specifies marker annotations that require explicit opt-in.\n * @see RequiresOptIn for a detailed
description of opt-in semantics and propagation rules.\n *\/n@Target(\n    CLASS, PROPERTY,
LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS)\n\n@Retention(SOURCE)\n@SinceKotlin("1.3")\npublic annotation class OptIn(\n    vararg val
markerClass: KClass<out Annotation>)\n/n/**\n * This annotation marks the experimental preview of the
language feature [SubclassOptInRequired].\n
**\n * > Note that this API is in a preview state and has a chance of being changed in the future.\n * Do not use it if
you develop a library since your library can become source incompatible\n * with the future versions of Kotlin.\n
**\n@Target(CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.8")\npublic annotation class
ExperimentalSubclassOptIn\n/n/**\n * Annotation that marks open for subclassing classes and interfaces, and
makes implementation\n * and extension of such declarations as requiring an explicit opt-in.\n * When applied,
any attempt to subclass the target declaration will trigger an opt-in\n * with the corresponding level and message.\n
**\n * The intended uses of subclass opt-in markers include, but are not limited to the following API:\n * - Stable to
use, but unstable to implement due to its further evolution.\n * - Stable to use, but closed for 3rd-part
implementations due to internal or technical reasons.\n * - Stable to use, but delicate or fragile to implement.\n
**\n * - Stable to use, but with a contract that may be weakened in the future in a backwards-incompatible\n * manner
for external implementations.\n **\n * Contrary to regular [RequiresOptIn], there are three ways to opt-in into the
subclassing requirement:\n * - Annotate declaration with the marker annotation, making it propagating.\n * -
Annotate declaration with [OptIn] in order to opt in into the provided guarantees in a non-propagating manner.\n * -
Annotate declaration with [SubclassOptInRequired] with the same marker class, making it further propagating only
for subclassing.\n **\n * Uses of this annotation are limited to open and abstract classes, and non-`fun` interfaces.\n
**\n * Any other uses allowed by `CLASS` annotation target yield a compilation error.\n **\n * @property markerClass
specifies marker annotation that require explicit opt-in.\n * @see RequiresOptIn for a detailed description of opt-in
semantics and propagation rules.\n
**\n@Target(CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.8")\n@ExperimentalSubclassOptIn\npublic
annotation class SubclassOptInRequired(\n    val markerClass: KClass<out Annotation>)\n/n,**\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationTarget.*\nimport
kotlin.reflect.KClass\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n    vararg val markerClass:
KClass<out Annotation>)\n/n,**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

```

```

license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal
implementation
of the read-only [Collection] interface.\n */\n * @param E the type of elements contained in the collection. The
collection is covariant in its element type.\n */\n@SinceKotlin("1.1")\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E> {\n
abstract override val size: Int\n
abstract override fun iterator():
Iterator<E>\n\n
override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\n\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n
elements.all { contains(it) }\n
// use when js will support bound refs: elements.all(this::contains)\n\n
override fun isEmpty(): Boolean = size ==
0\n\n
override fun toString(): String = joinToString(", ", "[", "]") {\n
if (it == this) \"(this Collection)\"
else it.toString()\n
}\n\n
/**\n * Returns new array of type `Array<Any?>` with the elements of this
collection.\n */\n
@JsName("toArray")\n
protected
open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n
/**\n * Fills the provided [array] or creates
new array of the same type\n */\n * and fills it with the elements of this collection.\n */\n
protected open fun <T>
toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\n\n
}"/\n\n
/* Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n */\n
Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\n
package kotlin.collections\n\n\n
private enum class
State {\n
Ready,\n
NotReady,\n
Done,\n
Failed\n
}\n\n
/**\n * A base class to simplify implementing iterators
so that implementations only have to implement [computeNext]\n */\n
to implement the iterator, calling [done] when
the iteration is complete.\n */\n
public abstract class AbstractIterator<T> : Iterator<T> {\n
private var state =
State.NotReady\n
private var nextValue: T? = null\n\n
override fun
hasNext(): Boolean {\n
require(state != State.Failed)\n
return when (state) {\n
State.Done -> false\n
State.Ready -> true\n
else -> tryToComputeNext()\n
}\n
}\n\n
override fun next(): T {\n
if
(!hasNext()) throw NoSuchElementException()\n
state = State.NotReady\n
@Suppress("UNCHECKED_CAST")\n
return nextValue as T\n
}\n\n
private fun tryToComputeNext():
Boolean {\n
state = State.Failed\n
computeNext()\n
return state == State.Ready\n
}\n\n
/**\n *
Computes the next item in the iterator.\n */\n
This callback method should call one of these two methods:\n
*\n
* * [setNext] with the next value of the iteration\n
* * [done] to indicate there are no more elements\n
*\n
* Failure to call either method will result in the iteration terminating with a failed state\n
*/\n
abstract
protected fun computeNext(): Unit\n\n
/**\n * Sets
the next value in the iteration, called from the [computeNext] function\n */\n
protected fun setNext(value: T):
Unit {\n
nextValue = value\n
state = State.Ready\n
}\n\n
/**\n * Sets the state to done so that the
iteration terminates.\n */\n
protected fun done() {\n
state = State.Done\n
}\n\n
}"/\n\n
/* Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n */\n
Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n
/* Based on GWT
AbstractList\n */\n
Copyright 2007 Google Inc.\n */\n\n
package kotlin.collections\n\n\n
/**\n * Provides a skeletal
implementation of the read-only [List] interface.\n */\n
This class is intended to help implementing read-only lists
so it doesn't support concurrent modification tracking.\n */\n
@param E the type of elements contained in the list.
The list is covariant in its element type.\n */\n
@SinceKotlin("1.1")\n
public
abstract class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\n
abstract
override val size: Int\n
abstract override fun get(index: Int): E\n\n
override fun iterator(): Iterator<E> =
IteratorImpl()\n\n
override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n
override fun lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\n\n
override fun
listIterator(): ListIterator<E> = ListIteratorImpl(0)\n\n
override fun listIterator(index: Int): ListIterator<E> =
ListIteratorImpl(index)\n\n
override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex,
toIndex)\n\n
private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex:
Int) : AbstractList<E>(), RandomAccess {\n
private var _size: Int = 0\n\n
init {\n
checkRangeIndexes(fromIndex, toIndex, list.size)\n
this._size = toIndex
}
}

```



```

- fromIndex\n    }\n    override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n    }\n    return list[fromIndex + index]\n    }\n    override val size: Int get() = _size\n    }\n    /**\n     * Compares
this list with other list instance with the ordered structural equality.\n     *\n     * @return true, if [other] instance is a
[List] of the same size, which contains the same elements in the same order.\n     */\n    override fun equals(other:
Any?): Boolean {\n        if (other === this) return true\n        if (other !is List<*>) return false\n        return
orderedEquals(this, other)\n    }\n    /**\n     * Returns the hash code value for this list.\n     */\n    override fun
hashCode(): Int = orderedHashCode(this)\n    private open inner class IteratorImpl : Iterator<E> {\n        /** the
index of the item that will be returned on the next call to [next]() */\n        protected var index = 0\n        override
fun hasNext():
Boolean = index < size\n        override fun next(): E {\n            if (!hasNext()) throw
NoSuchElementException()\n            return get(index++)\n        }\n    }\n    /**\n     * Implementation of
[ListIterator] for abstract lists.\n     */\n    private open inner class ListIteratorImpl(index: Int) : IteratorImpl(),
ListIterator<E> {\n        init {\n            checkPositionIndex(index, this@AbstractList.size)\n            this.index =
index\n        }\n        override fun hasPrevious(): Boolean = index > 0\n        override fun nextIndex(): Int =
index\n        override fun previous(): E {\n            if (!hasPrevious()) throw NoSuchElementException()\n            return
get(--index)\n        }\n        override fun previousIndex(): Int = index - 1\n    }\n    internal companion
object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if (index < 0 || index >= size) {\n
                throw IndexOutOfBoundsException("index:
                $index, size: $size")\n            }\n            internal fun checkPositionIndex(index: Int, size: Int) {\n                if
(index < 0 || index > size) {\n                    throw IndexOutOfBoundsException("index: $index, size: $size")\n                }\n            }\n            internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n                if (fromIndex <
0 || toIndex > size) {\n                    throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex,
size: $size")\n                }\n                if (fromIndex > toIndex) {\n                    throw
IllegalArgumentException("fromIndex: $fromIndex > toIndex: $toIndex")\n                }\n            }\n            internal fun
checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n                if (startIndex < 0 || endIndex > size) {\n
                    throw IndexOutOfBoundsException("startIndex: $startIndex, endIndex: $endIndex, size: $size")\n                }\n                if (startIndex > endIndex)\n                    {\n                        throw
IllegalArgumentException("startIndex: $startIndex > endIndex: $endIndex")\n                    }\n            }\n            internal fun orderedHashCode(c: Collection<*>): Int {\n                var hashCode = 1\n                for (e in c) {\n
                    hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n                }\n                return hashCode\n            }\n            internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n                if (c.size != other.size)\n                    return false\n                val otherIterator = other.iterator()\n                for (elem in c) {\n                    val elemOther =
otherIterator.next()\n                    if (elem != elemOther) {\n                        return false\n                    }\n                }\n                return true\n            }\n        }\n    }\n}"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
file.\n */\n\n\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage
kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Map] interface.\n */\n\n * The
implementor is required to implement [entries] property, which should return read-only set of map entries.\n */\n\n *
@param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The
map is covariant in its value type.\n */\n\n * @SinceKotlin("1.1")\n\npublic abstract class AbstractMap<K, out V>
protected constructor() : Map<K, V> {\n    override fun containsKey(key: K): Boolean {\n        return
implFindEntry(key) != null\n    }\n    override fun containsValue(value: @UnsafeVariance V): Boolean =
entries.any { it.value == value }\n    internal fun containsEntry(entry: Map.Entry<*, *>): Boolean {\n        // since
entry comes from @UnsafeVariance parameters it can be virtually anything\n        if (entry !is Map.Entry<*, *>)\n            return false\n        val key = entry.key\n        val value = entry.value\n        val ourValue = get(key)\n        if (value != ourValue)\n            {\n                return false\n            }\n        // Perhaps it was null and we don't contain the key?\n        if (ourValue ==

```

```

null && !containsKey(key)) {\n        return false\n    }\n    return true\n }\n\n /**\n  * Compares
this map with other instance with the ordered structural equality.\n  *\n  * @return true, if [other] instance is a
[Map] of the same size, all entries of which are contained in the [entries] set of this map.\n  *\n  override fun
equals(other: Any?): Boolean {\n    if (other === this) return true\n    if (other !is Map<*, *>) return false\n
if (size != other.size) return false\n    return other.entries.all { containsEntry(it) }\n }\n\n  override operator
fun get(key: K): V? = implFindEntry(key)?.value\n\n /**\n  * Returns the hash code value for this map.\n
*\n  * It is the same as the hashCode of [entries] set.\n  *\n  override fun hashCode(): Int =
entries.hashCode()\n\n  override fun isEmpty(): Boolean = size == 0\n  override val size: Int get() =
entries.size\n\n /**\n  * Returns a read-only [Set] of all keys in this map.\n  *\n  * Accessing this property
first time creates a keys view from [entries].\n  * All subsequent accesses just return the created instance.\n  *\n
override val keys: Set<K>\n    get() {\n        if (_keys == null) {\n            _keys = object : AbstractSet<K>()\n
{\n                override operator fun contains(element: K): Boolean = containsKey(element)\n            }\n
        }\n        override operator fun iterator(): Iterator<K> {\n            val entryIterator = entries.iterator()\n
return object : Iterator<K> {\n                override fun hasNext(): Boolean = entryIterator.hasNext()\n
                override
                fun next(): K = entryIterator.next().key\n            }\n        }\n        override val size: Int get()
= this@AbstractMap.size\n    }\n    }\n    return _keys!!\n }\n\n @kotlin.concurrent.Volatile\n private var _keys: Set<K>? = null\n\n  override fun toString(): String =
entries.joinToString(", ", "\n", "\n") { toString(it) }\n\n private fun toString(entry: Map.Entry<K, V>): String =
toString(entry.key) + "=" + toString(entry.value)\n\n private fun toString(o: Any?): String = if (o === this) \"(this
Map)\" else o.toString()\n\n /**\n  * Returns a read-only [Collection] of all values in this map.\n  *\n  *
Accessing this property first time creates a values view from [entries].\n  * All subsequent accesses just return the
created instance.\n  *\n  override val values: Collection<V>\n    get() {\n        if (_values == null) {\n
            _values = object
            : AbstractCollection<V>()\n                override operator fun contains(element: @UnsafeVariance V): Boolean
= containsValue(element)\n                override operator fun iterator(): Iterator<V> {\n                    val
entryIterator = entries.iterator()\n                    return object : Iterator<V> {\n                        override fun
hasNext(): Boolean = entryIterator.hasNext()\n                        override fun next(): V = entryIterator.next().value\n
                    }\n                }\n                override val size: Int get() = this@AbstractMap.size\n            }\n
        }\n        return _values!!\n    }\n\n @kotlin.concurrent.Volatile\n private var _values: Collection<V>? =
null\n\n private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n internal companion
object {\n    internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) {
(key?.hashCode()
?: 0) xor (value?.hashCode() ?: 0) }\n    internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {
\"$key=$value\" }\n    internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n        if (other !is
Map.Entry<*, *>) return false\n        return e.key == other.key && e.value == other.value\n    }\n }\n\n \"\n\", \"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n */\n\n /**\n  * Provides a skeletal implementation of the read-only [Set] interface.\n  *\n  * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n
*\n  * @param E the type of elements contained in the set. The set is covariant in its element type.\n
*\n  * @since Kotlin(1.1)\n  */\n public abstract class AbstractSet<out E> protected constructor()\n    : AbstractCollection<E>(), Set<E> {\n    /**\n     * Compares this set with other set instance with the unordered
structural equality.\n     *\n     * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n     *\n     override fun equals(other: Any?): Boolean {\n         if (other === this) return true\n
if (other !is Set<*>) return false\n         return setEquals(this, other)\n     }\n\n     /**\n     * Returns the hash code
value for this set.\n     *\n     override fun hashCode(): Int = unorderedHashCode(this)\n\n     internal companion
object {\n         internal fun unorderedHashCode(c: Collection<*>): Int {\n             var hashCode = 0\n             for

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(element in c) {\n        hashCode += (element?.hashCode() ?: 0)\n    }\n    return hashCode\n}\n\ninternal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n    if (c.size != other.size) return false\n\n    return c.containsAll(other)\n}\n}\n\n"/>\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation of the deque data structure.\n * The name deque is short for "double ended queue" and is usually pronounced "deck".\n * The collection provide methods for convenient access to the both ends.\n * It also implements [MutableList] interface and supports efficient get/set operations by index.\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> : AbstractMutableList<E> {\n    private var head: Int = 0\n    private var elementData: Array<Any?>\n\n    override var size: Int = 0\n    private set\n\n    /**\n     * Constructs an empty deque with specified [initialCapacity], or throws [IllegalArgumentException] if [initialCapacity] is negative.\n     */\n    public constructor(initialCapacity: Int) {\n        elementData = when {\n            initialCapacity == 0 -> emptyElementData\n            initialCapacity > 0 -> arrayOfNulls(initialCapacity)\n        else -> throw IllegalArgumentException("Illegal Capacity: $initialCapacity")\n    }\n\n    /**\n     * Constructs an empty deque.\n     */\n    public constructor() {\n        elementData = emptyElementData\n    }\n\n    /**\n     * Constructs a deque that contains the same elements as the specified [elements] collection in the same order.\n     */\n    public constructor(elements: Collection<E>) {\n        elementData = elements.toArray()\n        size = elementData.size\n        if (elementData.isEmpty()) elementData = emptyElementData\n    }\n\n    /**\n     * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].\n     * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     */\n    private fun ensureCapacity(minCapacity: Int) {\n        if (minCapacity < 0) throw IllegalStateException("Deque is too big.") // overflow\n        if (minCapacity <= elementData.size) return\n        if (elementData === emptyElementData) {\n            elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n            return\n        }\n        val newCapacity = newCapacity(elementData.size, minCapacity)\n        copyElements(newCapacity)\n    }\n\n    /**\n     * Creates a new array with the specified [newCapacity] size and copies elements in the [elementData] array to it.\n     */\n    private fun copyElements(newCapacity: Int) {\n        val newElements = arrayOfNulls<Any?>(newCapacity)\n        elementData.copyInto(newElements, 0, head, elementData.size)\n        elementData.copyInto(newElements, elementData.size - head, 0, head)\n        head = 0\n        elementData = newElements\n    }\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalGet(internalIndex: Int): E {\n        @Suppress("UNCHECKED_CAST")\n        return elementData[internalIndex] as E\n    }\n\n    private fun positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index\n\n    private fun negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalIndex(index: Int): Int = positiveMod(head + index)\n\n    private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1\n\n    private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1\n\n    override fun isEmpty(): Boolean = size == 0\n\n    /**\n     * Returns the first element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n    /**\n     * Returns the first element, or `null` if this deque is empty.\n     */\n    public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)\n\n    /**\n     * Returns the last element, or throws [NoSuchElementException] if this deque is empty.\n     */\n    public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(internalIndex(lastIndex))\n\n    /**\n     * Returns the last element, or `null` if this deque is empty.\n     */\n    public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n    /**\n     * Prepends the specified [element] to this deque.\n     */\n
```

```

public fun addFirst(element: E) {
    ensureCapacity(size + 1)
    head = decremented(head)
    elementData[head] = element
    size += 1
}
/**
 * Appends the specified
 [element] to this deque.
 */
public fun addLast(element: E) {
    ensureCapacity(size + 1)
    elementData[internalIndex(size)] = element
    size += 1
}
/**
 * Removes the first element from
 this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.
 */
public fun removeFirst(): E {
    if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
    val element = internalGet(head)
    elementData[head] = null
    head = incremented(head)
    size -= 1
    return element
}
/**
 * Removes the first element from this deque and returns that removed
 element, or returns `null` if this deque is empty.
 */
public fun removeFirstOrNull(): E? = if (isEmpty()) null
else removeFirst()
/**
 * Removes the last element from this deque and returns that removed element, or
 throws [NoSuchElementException] if this deque
 is empty.
 */
public fun removeLast(): E {
    if (isEmpty()) throw
 NoSuchElementException("ArrayDeque is empty.")
    val internalLastIndex = internalIndex(lastIndex)
    val element = internalGet(internalLastIndex)
    elementData[internalLastIndex] = null
    size -= 1
    return element
}
/**
 * Removes the last element from this deque and returns that removed element, or
 returns `null` if this deque is empty.
 */
public fun removeLastOrNull(): E? = if (isEmpty()) null
else removeLast()
// MutableList, MutableCollection
public override fun add(element: E): Boolean {
    addLast(element)
    return true
}
public override fun add(index: Int, element: E) {
    AbstractList.checkPositionIndex(index, size)
    if (index == size) {
        addLast(element)
    } else if (index == 0) {
        addFirst(element)
    } else {
        ensureCapacity(size + 1)
        // Elements in circular array lay in 2 ways:
        // 1. `head` is less
        // than `tail`: [#, #, e1, e2, e3, #]
        // 2. `head` is greater than `tail`: [e3, #, #, #, e1, e2]
        // where head
        // is the index of the first element in the circular array,
        // and tail is the index following the last element.
        // At this point the insertion index is not equal to head or tail.
        // Also the circular array can store at
        // least one more element.
        // Depending on where the given element must be inserted the preceding or
        // the succeeding
        // elements will be shifted to make room for the element to be inserted.
        // In case
        // the preceding elements are shifted:
        // * if the insertion index is greater than the head (regardless of circular
        // array form)
        // -> shift the preceding elements
        // * otherwise, the circular array has
        // (2) form and the insertion index is less than tail
        // -> shift all elements in the back of the array
        // -
        // > shift preceding elements in the front of the array
        // In case the succeeding elements are shifted:
        // * if
        // the insertion index is less than the tail (regardless of circular array form)
        // -> shift the succeeding
        // elements
        // * otherwise, the circular array has (2) form and the insertion index is greater than head
        // -
        // -> shift all elements in the front of the array
        // -> shift succeeding elements in the back of the array
        val internalIndex = internalIndex(index)
        if (index < (size + 1) shr 1) {
            // closer to the first element -
            // > shift preceding elements
            val decrementedInternalIndex = decremented(internalIndex)
            val
            decrementedHead = decremented(head)
            if (decrementedInternalIndex >= head) {
                elementData[decrementedHead]
                = elementData[head] // head can be zero
                elementData.copyInto(elementData, head, head + 1,
                decrementedInternalIndex + 1)
            } else { // head > tail
                elementData.copyInto(elementData, head -
                1, head, elementData.size) // head can't be zero
                elementData[elementData.size - 1] = elementData[0]
                elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)
            }
        }
        elementData[decrementedInternalIndex] = element
        head = decrementedHead
    } else { //
        // closer to the last element -> shift succeeding elements
        val tail = internalIndex(size)
        if
        (internalIndex < tail) {
            elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)
        } else { // head > tail
            elementData.copyInto(elementData, 1, 0, tail)
            elementData[0] =
            elementData[elementData.size
            - 1]
            elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)
        }
        elementData[internalIndex] = element
    }
    size += 1
}
private fun

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copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n    val iterator = elements.iterator()\n    for (index in internalIndex until elementData.size) {\n        if (!iterator.hasNext()) break\n        elementData[index] = iterator.next()\n    }\n    for (index in 0 until head) {\n        if (!iterator.hasNext())\n        break\n        elementData[index] = iterator.next()\n    }\n    size += elements.size\n}\n\npublic override\nfun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty()) return false\n    ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size), elements)\n    return true\n}\n\npublic override fun addAll(index:\nInt, elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n    if\n(elements.isEmpty()) {\n        return false\n    } else if (index == size) {\n        return addAll(elements)\n    }\n    ensureCapacity(this.size + elements.size)\n    val tail = internalIndex(size)\n    val internalIndex =\ninternalIndex(index)\n    val elementsSize = elements.size\n    if (index < (size + 1) shr 1) {\n        // closer\n        to the first element -> shift preceding elements\n        var shiftedHead = head - elementsSize\n        if\n(internalIndex >= head) {\n            if (shiftedHead >= 0) {\n                elementData.copyInto(elementData,\nshiftedHead, head, internalIndex)\n            } else { // head < tail, insertion leads to head >= tail\n                shiftedHead += elementData.size\n                val elementsToShift = internalIndex - head\n                val\n                shiftToBack\n                = elementData.size - shiftedHead\n                if (shiftToBack >= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                }\n            }\n        } else { // head > tail, internalIndex < tail\n            elementData.copyInto(elementData, shiftedHead, head,\n            elementData.size)\n            if (elementsSize >= internalIndex) {\n                elementData.copyInto(elementData,\n                elementData.size - elementsSize, 0, internalIndex)\n            } else {\n                elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n                elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n            }\n        }\n        head = shiftedHead\n        copyCollectionElements(negativeMod(internalIndex -\n        elementsSize), elements)\n    } else {\n        // closer to the last element -> shift succeeding elements\n        val shiftedInternalIndex = internalIndex + elementsSize\n        if (internalIndex < tail) {\n            if (tail +\n            elementsSize <= elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex,\n                internalIndex, tail)\n            } else { // head < tail, insertion leads to head >= tail\n                if\n                (shiftedInternalIndex >= elementData.size) {\n                    elementData.copyInto(elementData,\n                    shiftedInternalIndex - elementData.size, internalIndex, tail)\n                } else {\n                    val shiftToFront =\n                    tail + elementsSize - elementData.size\n                    elementData.copyInto(elementData, 0, tail - shiftToFront,\n                    tail)\n                    elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail - shiftToFront)\n                }\n            }\n        } else { // head > tail, internalIndex > head\n            elementData.copyInto(elementData,\n            elementsSize, 0, tail)\n            if (shiftedInternalIndex >= elementData.size) {\n                elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, elementData.size)\n            } else {\n                elementData.copyInto(elementData, 0, elementData.size - elementsSize,\n                elementData.size)\n                elementData.copyInto(elementData, shiftedInternalIndex, internalIndex,\n                elementData.size - elementsSize)\n            }\n        }\n    }\n    copyCollectionElements(internalIndex,\n    elements)\n}\n\nreturn true\n}\n\npublic override fun get(index: Int): E {\n    AbstractList.checkElementIndex(index, size)\n    return internalGet(internalIndex(index))\n}\n\npublic override fun set(index: Int, element: E): E {\n    AbstractList.checkElementIndex(index, size)\n    val internalIndex = internalIndex(index)\n    val oldElement = internalGet(internalIndex)\n    elementData[internalIndex] = element\n    return oldElement\n}\n\npublic override fun contains(element:\nE): Boolean = indexOf(element) != -1\n\npublic override fun indexOf(element: E): Int {\n    val tail =\n    internalIndex(size)\n    if (head < tail) {\n        for (index in head until tail) {\n            if (element ==

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elementData[index]) return index - head\n        }\n        } else if (head >= tail) {\n            for (index in head until
elementData.size) {\n                if (element == elementData[index]) return index - head\n            }\n        } for
(index in 0 until tail) {\n            if (element == elementData[index]) return index + elementData.size - head\n
        }\n    }\n\n    return -1\n }\n\n public override fun lastIndexOf(element: E): Int {\n    val tail = internalIndex(size)\n\n if (head < tail) {\n    for (index in tail - 1 downTo head) {\n        if (element == elementData[index])
return index - head\n    }\n    } else if (head > tail) {\n        for (index in tail - 1 downTo 0) {\n            if
(element == elementData[index]) return index + elementData.size - head\n        }\n        for (index in
elementData.lastIndex downTo head) {\n            if (element == elementData[index]) return index - head\n
        }\n    }\n\n    return -1\n }\n\n public override fun remove(element: E): Boolean {\n    val index =
indexOf(element)\n    if (index == -1) return false\n    removeAt(index)\n    return true\n }\n\n public
override fun removeAt(index: Int): E {\n    AbstractList.checkNotNull(index, size)\n\n    if (index ==
lastIndex) {\n
        return removeLast()\n    } else if (index == 0) {\n        return removeFirst()\n    }\n\n    val
internalIndex = internalIndex(index)\n    val element = internalGet(internalIndex)\n\n    if (index < size shr 1)
{\n        // closer to the first element -> shift preceding elements\n        if (internalIndex >= head) {\n
elementData.copyInto(elementData, head + 1, head, internalIndex)\n        } else { // head > tail, internalIndex <
head\n            elementData.copyInto(elementData, 1, 0, internalIndex)\n            elementData[0] =
elementData[elementData.size - 1]\n            elementData.copyInto(elementData, head + 1, head, elementData.size
- 1)\n        }\n        elementData[head] = null\n        head = incremented(head)\n    } else {\n        //
closer to the last element -> shift succeeding elements\n        val internalLastIndex = internalIndex(lastIndex)\n\n
        if (internalIndex
<= internalLastIndex) {\n            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n        } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n            elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n        }\n        elementData[internalLastIndex] = null\n    }\n    size -= 1\n\n return element\n }\n\n public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n\n public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n\n private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n    if
(this.isEmpty() || elementData.isEmpty())\n        return false\n\n    val tail = internalIndex(size)\n
    var newTail = head\n    var modified = false\n\n    if (head < tail) {\n        for (index in head until tail)
{\n            val element = elementData[index]\n\n            @Suppress("UNCHECKED_CAST")\n            if
(predicate(element as E))\n                elementData[newTail++] = element\n            else\n                modified =
true\n        }\n        elementData.fill(null, newTail, tail)\n    } else {\n        for (index in head until
elementData.size) {\n            val element = elementData[index]\n            elementData[index] = null\n\n
@Suppress("UNCHECKED_CAST")\n            if (predicate(element as E))\n                elementData[newTail++] = element\n            else\n                modified = true\n        }\n        newTail =
positiveMod(newTail)\n        for (index in 0 until tail) {\n            val element = elementData[index]\n
            elementData[index] = null\n\n            @Suppress("UNCHECKED_CAST")\n            if
(predicate(element as E)) {\n                elementData[newTail] = element\n                newTail =
incremented(newTail)\n            } else {\n                modified = true\n            }\n        }\n    }\n\n    if
(modified)\n        size = negativeMod(newTail - head)\n\n    return modified\n }\n\n public override fun
clear() {\n    val tail = internalIndex(size)\n    if (head < tail) {\n        elementData.fill(null, head, tail)\n    }
else if (isNotEmpty()) {\n        elementData.fill(null, head, elementData.size)\n        elementData.fill(null, 0,
tail)\n    }\n    head = 0\n    size = 0\n }\n\n @Suppress("NOTHING_TO_OVERRIDE")\n override
fun <T> toArray(array: Array<T>): Array<T> {\n    @Suppress("UNCHECKED_CAST")\n    val dest = (if
(array.size >= size) array

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else arrayOfNulls(array, size)) as Array<Any?>\n\n    val tail = internalIndex(size)\n    if (head < tail) {\n        elementData.copyInto(dest, startIndex = head, endIndex = tail)\n    } else if (isEmpty()) {\n        elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n    }\n    elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n\n    if (dest.size > size) {\n        dest[size] = null // null-terminate\n    }\n\n    @Suppress("UNCHECKED_CAST")\n    return dest as Array<T>\n }\n\n@Suppress("NOTHING_TO_OVERRIDE")\n override fun toArray(): Array<Any?> {\n    return\n    toArray(arrayOfNulls<Any?>(size))\n }\n\n // for testing\n internal fun <T> testToArray(array: Array<T>):\n Array<T> = toArray(array)\n internal fun testToArray(): Array<Any?> = toArray()\n\n internal companion\n object {\n    private val\n    emptyElementData = emptyArray<Any?>()\n    private const val maxArraySize = Int.MAX_VALUE - 8\n    private const val defaultMinCapacity = 10\n\n    internal fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n        // overflow-conscious\n        var newCapacity = oldCapacity + (oldCapacity shr 1)\n        if\n        (newCapacity - minCapacity < 0)\n            newCapacity = minCapacity\n        if (newCapacity - maxArraySize\n        > 0)\n            newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n    }\n\n    return newCapacity\n }\n }\n\n // For testing only\n internal fun internalStructure(structure: (head: Int,\n elements: Array<Any?>) -> Unit) {\n    val tail = internalIndex(size)\n    val head = if (isEmpty() || head < tail)\n    head else head - elementData.size\n    structure(head, toArray())\n }\n }"/**\n * Copyright 2010-2018 JetBrains\n s.r.o. and Kotlin Programming Language contributors.\n *\n Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName("ArraysKt")\n\npackage\n kotlin.collections\n\nimport kotlin.contracts.*\n\n/**\n * Returns a single list of all elements from all arrays in the\n given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic fun <T> Array<out\n Array<out T>>.flatten(): List<T> {\n    val result = ArrayList<T>(sumOf { it.size })\n    for (element in this) {\n        result.addAll(element)\n    }\n    return result\n }\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from\n the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this\n array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out\n Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR = ArrayList<R>(size)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n }\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample\n samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>.isNullOrEmpty(): Boolean\n {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||\n    this.isEmpty()\n }\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if\n the array is empty.\n * @sample\n samples.collections.Arrays.Usage.arrayIfEmpty\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())\n defaultValue() else\n this\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.Jvm\nName("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal\n fun <T> Array<out T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n    if (this === other) return\n true\n    if (this == null || other == null || this.size != other.size) return false\n    for (i in indices) {\n        val v1 =\n this[i]\n        val v2 = other[i]\n        if (v1 === v2) {\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n        }\n        when {\n            v1 is Array<*> && v2 is Array<*> -> if\n (!v1.contentDeepEquals(v2)) return false\n            v1 is ByteArray && v2 is ByteArray -> if\n (!v1.contentEquals(v2)) return false\n            v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2))\n return false\n            v1 is IntArray && v2 is IntArray -> if (!v1.contentEquals(v2)) return false\n            v1 is\n LongArray

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    && v2 is LongArray -> if (!v1.contentEquals(v2)) return false\n        v1 is FloatArray && v2 is FloatArray
-> if (!v1.contentEquals(v2)) return false\n        v1 is DoubleArray && v2 is DoubleArray -> if
(!v1.contentEquals(v2)) return false\n        v1 is CharArray && v2 is CharArray -> if (!v1.contentEquals(v2))
return false\n        v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n\n
v1 is UByteArray && v2 is UByteArray -> if (!v1.contentEquals(v2)) return false\n        v1 is UShortArray
&& v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n        v1 is UIntArray && v2 is UIntArray -
> if (!v1.contentEquals(v2)) return false\n        v1 is ULongArray && v2 is ULongArray -> if
(!v1.contentEquals(v2)) return false\n        else -> if (v1 != v2) return false\n    }\n\n }\n return
true\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal
fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n    if (this == null) return "null"\n    val length =
size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n    return
buildString(length) {\n        contentDeepToStringInternal(this, mutableListOf())\n    }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n    if (this in
processed) {\n        result.append("[...]")\n        return\n    }\n    processed.add(this)\n    result.append('[')\n    for (i
in indices) {\n        if (i != 0) {\n            result.append(", ")\n        }\n        val element = this[i]\n        when
(element) {\n            null -> result.append("null")\n            is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n            is ByteArray -> result.append(element.contentToString())\n            is ShortArray ->
result.append(element.contentToString())\n            is IntArray -> result.append(element.contentToString())\n            is LongArray -> result.append(element.contentToString())\n            is FloatArray ->
result.append(element.contentToString())\n            is DoubleArray -> result.append(element.contentToString())\n            is CharArray -> result.append(element.contentToString())\n            is BooleanArray ->
result.append(element.contentToString())\n            is UByteArray -> result.append(element.contentToString())\n            is UShortArray -> result.append(element.contentToString())\n            is UIntArray ->
result.append(element.contentToString())\n            is ULongArray -> result.append(element.contentToString())\n            else -> result.append(element.toString())\n        }\n    }\n    result.append(']')\n    processed.removeAt(processed.lastIndex)\n}"/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n/**\n * Data class representing a value from a collection or sequence, along with its index in
that collection or sequence.\n * @property value the underlying value.\n * @property index the index of the
value in the collection or sequence.\n */\npublic data class IndexedValue<out T>(public val index: Int, public val
value: T)\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport
kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of the property
for the given object from this read-only map.\n * @param thisRef the object for which the value is requested (not
used).\n * @param property the metadata for the property, used to get the name of property and lookup the value
corresponding to this name in the map.\n * @return the property value.\n * @throws NoSuchElementException
when the map doesn't contain value for the property name and doesn't provide an implicit default (see
[withDefault]).\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact
V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST")
(getOrNullImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from
this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property
the metadata for the property, used to get the name of property and lookup the value corresponding to this name in
the map.\n

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* @return the property value.\n * @throws NoSuchElementException when the map doesn't contain value for
the property name and doesn't provide an implicit default (see [withDefault]).\n
*\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V>
MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n
@Suppress("UNCHECKED_CAST") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Stores the value of
the property for the given object in this mutable map.\n * @param thisRef the object for which the value is
requested (not used).\n * @param property the metadata for the property, used to get the name of property and store
the value associated with that name in the map.\n * @param value the value to set.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef:
Any?, property: KProperty<*>, value: V) {\n    this.put(property.name, value)\n}\n"/**\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By
default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with
implicit default value use [withDefault] method.\n * @throws NoSuchElementException when the map doesn't
contain a value for the specified key and no implicit default was provided for that map.\n
*\n@kotlin.jvm.JvmName("getOrImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K,
V>.getOrImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return
this.getOrImplicitDefault(key)\n    return getOrElseNullable(key, { throw NoSuchElementException("Key
$key is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default
value provided with the specified function [defaultValue].\n * @throws NoSuchElementException when the
original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function,
for example when properties are delegated to the map.\n * @param this the map.\n * @param defaultFunction the
function that provides the implicit default value.\n * @return a wrapper of this mutable map, having the implicit
default value provided with the specified function [defaultValue].\n * This implicit default value is used when the
original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function,
for example when properties are delegated to the map.\n * When this map already has an implicit default value
provided with a former call to [withDefault], it is being replaced by this call.\n\npublic fun <K, V> Map<K,
V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n    when (this) {\n        is MapWithDefault ->
this.map.withDefault(defaultValue)\n        else -> MapWithDefaultImpl(this, defaultValue)\n    }\n\n/**\n * Returns
a wrapper of this mutable map, having the implicit default value provided with the specified function
[defaultValue].\n * This implicit default value is used when the original
map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for
example when properties are delegated to the map.\n * When this map already has an implicit default value
provided with a former call to [withDefault], it is being replaced by this call.\n
*\n@kotlin.jvm.JvmName("withDefaultMutable")\npublic fun <K, V> MutableMap<K,
V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n    when (this) {\n        is
MutableMapWithDefault -> this.map.withDefault(defaultValue)\n        else -> MutableMapWithDefaultImpl(this,
defaultValue)\n    }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n    public val map: Map<K,
V>\n    public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :
MutableMap<K, V>, MapWithDefault<K, V> {\n    public override val map: MutableMap<K, V>\n}\n\nprivate
class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default:
(key: K) -> V) : MapWithDefault<K, V> {\n    override fun equals(other: Any?): Boolean = map.equals(other)\n
override fun hashCode(): Int = map.hashCode()\n    override fun toString(): String = map.toString()\n    override val
size: Int get() = map.size\n    override fun isEmpty(): Boolean = map.isEmpty()\n    override fun containsKey(key:
K): Boolean = map.containsKey(key)\n    override fun containsValue(value: @UnsafeVariance V): Boolean =
map.containsValue(value)\n    override fun get(key: K): V? = map.get(key)\n    override val keys: Set<K> get() =
map.keys\n    override val values: Collection<V> get() = map.values\n    override val entries: Set<Map.Entry<K,
V>> get() = map.entries\n    override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, {
default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K,
V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n    override fun equals(other: Any?):

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Boolean = map.equals(other)\n  override fun hashCode(): Int = map.hashCode()\n  override fun toString(): String
= map.toString()\n  override val size: Int get() = map.size\n  override fun isEmpty(): Boolean = map.isEmpty()\n
override fun containsKey(key: K): Boolean = map.containsKey(key)\n  override fun containsValue(value:
@UnsafeVariance V): Boolean = map.containsValue(value)\n  override fun get(key: K): V? = map.get(key)\n
override val keys: MutableSet<K> get() = map.keys\n  override val values: MutableCollection<V> get() =
map.values\n  override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n
override fun put(key: K, value: V): V? = map.put(key, value)\n  override fun remove(key: K): V? =
map.remove(key)\n  override fun putAll(from: Map<out K, V>) = map.putAll(from)\n  override fun clear() =
map.clear()\n\n  override fun getOrDefault(key: K): V = map.getOrNull(key, { default(key)
})\n}\n\n", "/*\n * Copyright

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*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Removes a single instance of the specified element from this\n * collection, if it is
present.\n * \n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type
`E`.\n * \n * @return `true` if the element has been successfully removed; `false` if it was not present in the
collection.\n * \n * @kotlin.internal.InlineOnly\n * public inline fun <@kotlin.internal.OnlyInputTypes T>
MutableCollection<out T>.remove(element: T): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n * \n * Allows to overcome
type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n * \n * @return
`true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n
*\n * @kotlin.internal.InlineOnly\n * public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.removeAll(elements: Collection<T>): Boolean =\n  @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are
contained in the specified collection.\n * \n * Allows to overcome type-safety restriction of `retainAll` that requires
to pass a collection of type `Collection<E>`.\n * \n * @return `true` if any element was removed from the collection,
`false` if the collection was not modified.\n * \n * @kotlin.internal.InlineOnly\n * public inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n
@Suppress("UNCHECKED_CAST")
(this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable
collection.\n * \n * @kotlin.internal.InlineOnly\n * public inline operator fun <T> MutableCollection<in
T>.plusAssign(element: T) {\n  this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements]
collection to this mutable collection.\n * \n * @kotlin.internal.InlineOnly\n * public inline operator fun <T>
MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] array to this mutable collection.\n * \n * @kotlin.internal.InlineOnly\n * public inline
operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n
this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n
*\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T> MutableCollection<in T>.plusAssign(elements:
Sequence<T>) {\n  this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable collection.\n
*\n * @kotlin.internal.InlineOnly\n * public inline operator fun <T> MutableCollection<in T>.minusAssign(element: T)
{\n  this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from
this mutable collection.\n * \n * @kotlin.internal.InlineOnly\n * public inline operator fun <T> MutableCollection<in
T>.minusAssign(elements: Iterable<T>) {\n  this.removeAll(elements)\n}\n\n/**\n * Removes all elements
contained in the given [elements] array from this mutable collection.\n * \n * @kotlin.internal.InlineOnly\n * public
inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n
this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this

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mutable collection.\n *^\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(elements:
Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to
this [MutableCollection].\n *^\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean
{\n when (elements) {\n is Collection -> return addAll(elements)\n else -> {\n var result: Boolean
= false\n for (item in elements)\n if (add(item)) result = true\n return result\n }\n
}\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\n *^\npublic fun
<T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n var result: Boolean = false\n for
(item in elements) {\n if (add(item)) result = true\n }\n return result}\n}\n\n/**\n * Adds all elements of the
given [elements] array to this [MutableCollection].\n *^\npublic fun <T> MutableCollection<in T>.addAll(elements:
Array<out T>): Boolean {\n return addAll(elements.asList())}\n}\n\n/**\n * Converts this [Iterable] to a list if it is not a [Collection].\n * Otherwise, returns this.\n *^\ninternal fun <T>
Iterable<T>.convertToListIfNotCollection(): Collection<T> =\n if (this is Collection) this else toList()\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n
*^\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n return
removeAll(elements.convertToListIfNotCollection())}\n}\n\n/**\n * Removes all elements from this
[MutableCollection] that are also contained in the given [elements] sequence.\n *^\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n val list = elements.toList()\n return
list.isNotEmpty() && removeAll(list)\n}\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are
also contained in the given [elements] array.\n *^\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Array<out T>): Boolean {\n return elements.isNotEmpty() && removeAll(elements.asList())}\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n
*^\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n return
retainAll(elements.convertToListIfNotCollection())}\n}\n\n/**\n * Retains only elements of this [MutableCollection]
that are contained in the given [elements] array.\n *^\npublic fun <T> MutableCollection<in T>.retainAll(elements:
Array<out T>): Boolean {\n if (elements.isNotEmpty())\n return retainAll(elements.asList())\n else\n
return retainNothing()\n}\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the
given [elements] sequence.\n *^\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>):
Boolean {\n val list = elements.toList()\n if (list.isNotEmpty())\n return retainAll(list)\n else\n
return retainNothing()\n}\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n val result =
isEmpty()\n clear()\n return result}\n}\n\n/**\n * Removes all elements from this [MutableIterable] that
match the given [predicate].\n *^\n * @return `true` if any element was removed from this collection, or `false` when
no elements were removed and collection was not modified.\n *^\npublic fun <T>
MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n}\n\n/**\n * Retains only elements of this [MutableIterable] that match the given [predicate].\n
*^\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n *^\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n}\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean
{\n var result = false\n with(iterator()) {\n while (hasNext())\n if (predicate(next()) ==
predicateResultToRemove) {\n remove()\n result = true\n }\n }\n return
result}\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n *^\n@Deprecated("Use removeAt(index) instead.",
ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n}\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else

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removeAt(0)\n\n/**\n * Removes the
first element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this
[MutableList] that match the given [predicate].\n
*/\n * @return `true` if any element was removed from this
collection, or `false` when no elements were removed and collection was not modified.\n
*/\npublic fun <T>
MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains
only elements of this [MutableList] that match the given [predicate].\n
*/\n * @return `true` if any element was
removed from this collection, or `false` when all elements were retained and collection was not modified.\n
*/\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove:
Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element
= this[readIndex]\n        if (predicate(element) == predicateResultToRemove)\n            continue\n        if
(writeIndex != readIndex)\n            this[writeIndex] = element\n            writeIndex++\n    }\n    if (writeIndex < size)
{\n        for (removeIndex in lastIndex downTo writeIndex)\n            removeAt(removeIndex)\n        return true\n
    } else {\n        return false\n    }\n}\n\n"/**\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An
iterator over a sequence of values of type `Byte`. */\npublic abstract class ByteIterator : Iterator<Byte> {\n
    override final fun next() = nextByte()\n    /** Returns the next value in the sequence without boxing. */\n    public
abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence
of values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n    override final fun next() =
nextChar()\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextChar():
Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator :
Iterator<Short> {\n    override final fun next() = nextShort()\n    /** Returns the next value in the sequence without
boxing. */\n    public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`.
*/\npublic abstract class IntIterator : Iterator<Int> {\n    override final fun next() = nextInt()\n    /** Returns the
next value in the sequence without boxing. */\n    public abstract fun nextInt(): Int\n}\n\n/** An iterator over a
sequence of values of type `Long`. */\npublic abstract class LongIterator : Iterator<Long> {\n    override final fun
next() = nextLong()\n    /** Returns the next value in
the sequence without boxing. */\n    public abstract fun nextLong(): Long\n}\n\n/** An iterator over a sequence of
values of type `Float`. */\npublic abstract class FloatIterator : Iterator<Float> {\n    override final fun next() =
nextFloat()\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextFloat():
Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\npublic abstract class DoubleIterator :
Iterator<Double> {\n    override final fun next() = nextDouble()\n    /** Returns the next value in the sequence
without boxing. */\n    public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of
type `Boolean`. */\npublic abstract class BooleanIterator : Iterator<Boolean> {\n    override final fun next() =
nextBoolean()\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun

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nextBoolean(): Boolean\n}\n\n"/\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin
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found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n    override fun iterator(): Iterator<T> = listIterator(0)\n    override fun
listIterator(): ListIterator<T> = listIterator(0)\n\n    override fun listIterator(index: Int): ListIterator<T> = object :
ListIterator<T> {\n        val delegateIterator = delegate.listIterator(reversePositionIndex(index))\n        override fun
hasNext(): Boolean = delegateIterator.hasPrevious()\n        override fun hasPrevious(): Boolean =
delegateIterator.hasNext()\n        override fun next(): T = delegateIterator.previous()\n
        override fun nextIndex(): Int = reverseIteratorIndex(delegateIterator.previousIndex())\n        override fun
previous(): T = delegateIterator.next()\n        override fun previousIndex(): Int =
reverseIteratorIndex(delegateIterator.nextIndex())\n    }\n}\n\nprivate class ReversedList<T>(private val delegate:
MutableList<T>) : AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun
get(index: Int): T = delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override
fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override fun set(index: Int,
element: T): T = delegate.set(reverseElementIndex(index), element)\n    override fun add(index: Int, element: T) {\n
        delegate.add(reversePositionIndex(index), element)\n    }\n\n    override fun iterator(): MutableIterator<T> =
listIterator(0)\n    override fun listIterator(): MutableListIterator<T> = listIterator(0)\n\n    override fun listIterator(index: Int): MutableListIterator<T> = object : MutableListIterator<T> {\n        val
delegateIterator = delegate.listIterator(reversePositionIndex(index))\n        override fun hasNext(): Boolean =
delegateIterator.hasPrevious()\n        override fun hasPrevious(): Boolean = delegateIterator.hasNext()\n
        override fun next(): T = delegateIterator.previous()\n        override fun nextIndex(): Int =
reverseIteratorIndex(delegateIterator.previousIndex())\n        override fun previous(): T = delegateIterator.next()\n
        override fun previousIndex(): Int = reverseIteratorIndex(delegateIterator.nextIndex())\n        override fun
add(element: T) {\n            delegateIterator.add(element)\n            // After an insertion previous() will return an
inserted element.\n            // Moving a cursor back by one element to return a correct value from next().\n            delegateIterator.previous()\n        }\n\n        override fun remove() = delegateIterator.remove()\n
        override fun set(element: T) = delegateIterator.set(element)\n    }\n}\n\nprivate fun
List<*>.reverseElementIndex(index: Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw
IndexOutOfBoundsException("Element index $index must be in range [0..$lastIndex].")\n\nprivate fun
List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size - index else throw
IndexOutOfBoundsException("Position index $index must be in range [0..$size].")\n\nprivate fun
List<*>.reverseIteratorIndex(index: Int) = lastIndex - index\n\n/**\n * Returns a reversed read-only view of the
original List.\n * All changes made in the original list will be reflected in the reversed one.\n * @sample
samples.collections.ReversedViews.asReversedList\n */\n\npublic fun <T> List<T>.asReversed(): List<T> =
ReversedListReadOnly(this)\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All
changes made in the original list will be reflected
in the reversed one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*/\n\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\SequencesKt")\n\n@file:OptIn(Experimenta
lTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a
[Sequence] lazily yielding values one by one.\n */\n * @see kotlin.sequences.generateSequence\n */\n * @sample

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samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION")\npublic
fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().-> Unit): Sequence<T> = Sequence {
iterator(block) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION")\npublic fun <T> iterator(@BuilderInference block:
suspend SequenceScope<T>().-> Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n
iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n    return
iterator}\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll]
suspension functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n@RestrictsSuspension\n@SinceKotlin("1.3")\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next value is
requested.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     */\n    public abstract suspend fun yield(value:
T)\n\n    /**\n     * Yields all values from the `iterator` to the [Iterator] being built\n     * and suspends until all these
values are iterated and the next one is requested.\n     *\n     * The sequence of values returned by the given iterator
can be potentially infinite.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n
*/\n    public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n    /**\n     * Yields a collections of values to
the [Iterator] being built\n     *\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun yieldAll(elements:
Iterable<T>) {\n        if (elements is Collection && elements.isEmpty()) return\n        return
yieldAll(elements.iterator())\n    }\n\n    /**\n     * Yields potentially infinite sequence of values to the [Iterator]
being built\n     * and suspends until all these values are iterated and the next one is requested.\n     *\n     * The
sequence can be potentially infinite.\n     *\n     * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n     */\n    public suspend fun yieldAll(sequence:
Sequence<T>) = yieldAll(sequence.iterator())\n}\n\nprivate typealias State = Int\nprivate const val
State_NotReady: State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady:
State = 2\nprivate const val State_Ready: State
= 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\nprivate class
SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state =
State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? = null\n    var
nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n            when
(state) {\n                State_NotReady -> {\n                    State_ManyNotReady ->\n                        if
(nextIterator!!.hasNext()) {\n                            state = State_ManyReady\n                            return true\n                        }\n
else {\n                            nextIterator = null\n                            State_Done -> return false\n
State_Ready, State_ManyReady -> return true\n                            else -> throw exceptionalState()\n                        }\n                    }\n                }\n            }\n            val step
= State_Failed\n            val step
= nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n    override fun next(): T {\n
when (state) {\n        State_NotReady, State_ManyNotReady -> return nextNotReady()\n
State_ManyReady -> {\n            state = State_ManyNotReady\n            return nextIterator!!.next()\n        }\n
State_Ready -> {\n            state = State_NotReady\n            @Suppress("UNCHECKED_CAST")\n            val result = nextValue as T\n            nextValue = null\n            return result\n        }\n        else -> throw
exceptionalState()\n    }\n}\n\nprivate fun nextNotReady(): T {\n    if (!hasNext()) throw
NoSuchElementException() else return next()\n}\n\nprivate fun exceptionalState(): Throwable = when (state)

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{\n    State_Done -> NoSuchElementException()\n    State_Failed -> IllegalStateException("\Iterator has
failed.\")\n    else -> IllegalStateException("Unexpected
state of the iterator: $state")\n } \n\n\n override suspend fun yield(value: T) {\n    nextValue = value\n state = State_Ready\n    return suspendCoroutineUninterceptedOrReturn { c ->\n        nextStep = c\n COROUTINE_SUSPENDED\n    } \n\n\n override suspend fun yieldAll(iterator: Iterator<T>) {\n    if
(!iterator.hasNext()) return\n    nextIterator = iterator\n    state = State_ManyReady\n    return
suspendCoroutineUninterceptedOrReturn { c ->\n        nextStep = c\n        COROUTINE_SUSPENDED\n
} \n } \n\n // Completion continuation implementation\n override fun resumeWith(result: Result<Unit>) {\n
result.getOrThrow() // just rethrow exception if it is there\n    state = State_Done\n } \n\n\n override val context:
CoroutineContext\n    get() = EmptyCoroutineContext\n } \n\n\n /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n\n package kotlin.collections\n\n\n internal fun checkWindowSizeStep(size: Int, step: Int) {\n    require(size > 0 &&
step > 0)\n    if (size != step)\n        "\Both size $size and step $step must be greater than zero." \n    else\n
        "\size $size must be greater than zero." \n } \n } \n\n\n internal fun <T> Sequence<T>.windowedSequence(size:
Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n
checkWindowSizeStep(size, step)\n    return Sequence { windowedIterator(iterator(), size, step, partialWindows,
reuseBuffer) } \n } \n\n\n internal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows:
Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n    if (!iterator.hasNext()) return EmptyIterator\n    return
iterator<List<T>> {\n        val bufferInitialCapacity = size.coerceAtMost(1024)\n
        val gap = step - size\n        if (gap >= 0) {\n            var buffer = ArrayList<T>(bufferInitialCapacity)\n
var skip = 0\n            for (e in iterator) {\n                if (skip > 0) { skip -- 1; continue } \n                buffer.add(e)\n
                if (buffer.size == size) {\n                    yield(buffer)\n                    if (reuseBuffer) buffer.clear() else buffer =
ArrayList(size)\n                    skip = gap\n                } \n            } \n            if (buffer.isNotEmpty()) {\n                if
(partialWindows || buffer.size == size) yield(buffer)\n            } \n            } else {\n                var buffer =
RingBuffer<T>(bufferInitialCapacity)\n                for (e in iterator) {\n                    buffer.add(e)\n                    if
(buffer.isFull()) {\n                        if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue
}\n                        yield(if (reuseBuffer) buffer else ArrayList(buffer))\n
                        buffer.removeFirst(step)\n                    } \n                } \n                if (partialWindows) {\n                    while
(buffer.size > step) {\n                        yield(if (reuseBuffer) buffer else ArrayList(buffer))\n
                        buffer.removeFirst(step)\n                    } \n                } \n                if (buffer.isNotEmpty()) yield(buffer)\n            } \n
} \n } \n\n\n internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n
private var fromIndex: Int = 0\n    private var _size: Int = 0\n\n    fun move(fromIndex: Int, toIndex: Int) {\n
checkRangeIndexes(fromIndex, toIndex, list.size)\n        this.fromIndex = fromIndex\n        this._size = toIndex -
fromIndex\n    } \n\n\n    override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n        return
list[fromIndex + index]\n    } \n\n\n    override val size: Int get() = _size\n } \n\n\n\n /**\n * Provides ring buffer
implementation.\n * \n * Buffer overflow
is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\n\n private class RingBuffer<T>(private val
buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n    init {\n        require(filledSize >= 0)
{\n            "\ring buffer filled size should not be negative but it is $filledSize" \n        } \n        require(filledSize <= buffer.size) {\n
            "\ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}" \n        } \n    } \n\n
    constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n\n    private val capacity = buffer.size\n\n    private var startIndex: Int = 0\n    override var size: Int = filledSize\n\n    private set\n\n    override fun get(index:
Int): T {\n        checkElementIndex(index, size)\n        @SuppressWarnings("UNCHECKED_CAST")\n        return
buffer[startIndex.forward(index)] as T\n    } \n\n    fun isFull() = size == capacity\n\n    override fun iterator():
Iterator<T> = object : AbstractIterator<T>() {\n        private var
count = size\n        private var index = startIndex\n\n        override fun computeNext() {\n            if (count == 0) {\n
                done()\n            } \n            } else {\n                @SuppressWarnings("UNCHECKED_CAST")\n                setNext(buffer[index]

```





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    i++\n        j--\n        }\n        }\n        return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n    quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray\n=====\n@Exp\nperimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var\n    j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n        }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun\nquickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index\n    - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\n//\nInterfaces\n=====\n\n/**\n\n* Sorts the given array using qsort algorithm.\n */>\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:\n    UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -\n    1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:\n    UIntArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -\n    1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray, fromIndex: Int, toIndex: Int) =\n    quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:\n    ULongArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex - 1),"/*\n * Copyright 2010-\n    2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n    Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport\n    kotlin.internal.InlineOnly\n\n/**\n * Compares this object with the specified object for order. Returns zero if this\n    object is equal\n * to the specified [other] object, a negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n * This function delegates to [Comparable.compareTo] and allows to call it in infix\n    form.\n\n */>\n@InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int\n    =\n    this.compareTo(other)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\n    contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n    license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport\n    kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is\n    used to opt-in for that feature\n * when declaring contracts of user functions.\n * Any usage of a declaration\n    annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn]\n    annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `--opt-\n    in=kotlin.contracts.ExperimentalContracts`\n\n */>\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@RequiresOptIn\n@MustBeDocumente\n    d\npublic\n    annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such\n    as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n * This type is used as a\n    receiver type of the lambda function passed to the [contract] function.\n * @see contract\n\n */>\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n    /**\n    * Describes a situation when a function returns normally, without any exceptions thrown.\n    * Use\n    [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n    * //\n    @sample samples.contracts.returnsContract\n    @ContractsDsl\n    public fun returns(): Returns\n    /**\n    * Describes a situation when a function returns normally with the specified return [value].\n    * The possible\n    values of [value] are limited to `true`, `false` or `null`.\n\n    * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n    * //\n    @sample samples.contracts.returnsTrueContract\n    // @sample samples.contracts.returnsFalseContract\n    //

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@sample samples.contracts.returnsNullContract\n @ContractsDsl public fun returns(value: Any?): Returns\n\n
/**\n * Describes a situation when a function returns normally with any value that is not `null`. \n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n * \n * \n //
@sample samples.contracts.returnsNotNullContract\n @ContractsDsl public fun returnsNotNull():
ReturnsNotNull\n\n /**\n * Specifies that the function parameter [lambda] is invoked in place.\n * \n * This
contract specifies that:\n * 1. the function [lambda] can only be invoked during the call of the owner function,\n
* and it won't be invoked after that owner function call is completed;\n
* 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n *
see the [InvocationKind] enum for possible values.\n * \n * A function declaring the `callsInPlace` effect must
be _inline_.\n * \n * \n /* @sample samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n * \n @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how
many times a function invokes its function parameter in place.\n * \n * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic enum class InvocationKind {\n
/**\n * A function parameter
will be invoked one time or not invoked at all.\n * \n // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT_MOST_ONCE,\n\n /**\n * A
function parameter will be invoked one or more times.\n * \n * \n // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT_LEAST_ONCE,\n\n /**\n * A
function parameter will be invoked exactly one time.\n * \n * \n // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n\n /**\n * A
function parameter is called in place, but it's unknown how many times it can be called.\n * \n * \n // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the
contract of a function.\n * \n * The contract description must be at the beginning of a function and have at least one
effect.\n * \n * Only the top-level functions can have a contract for now.\n * \n * @param builder the
lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n * \n * \n/*
@sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample
samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample
samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n*
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample
samples.contracts.callsInPlaceExactlyOnceContract\n* @sample
samples.contracts.callsInPlaceUnknownContract\n*\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@
SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n *\npackage
kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The
coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine
continuations with [interceptContinuation] invocations.\n * \n * [ContinuationInterceptor] behaves like a
[polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates
[get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n * to
[getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be
extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it extends
[AbstractCoroutineContextKey].\n *\n@SinceKotlin("1.3")\npublic interface ContinuationInterceptor :
CoroutineContext.Element {\n /**\n * The key that defines *the* context interceptor.\n * \n *\n companion

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object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n
    /**\n     * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n     * This function is invoked by coroutines framework when needed and the resulting continuations are\n     * cached internally per each instance of the original [continuation].\n     * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n     * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n     * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n     * returned a different continuation instance.\n     */\n    public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n    /**\n     * Invoked for the continuation instance returned by [interceptContinuation] when the original\n     * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n     * had returned a different continuation instance from the one it was invoked with.\n     * Default implementation does nothing.\n     * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n     */\n    public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n        /* do nothing by default */\n    }\n\n    public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n        // getPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            @Suppress("UNCHECKED_CAST")\n            return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n        }\n        @Suppress("UNCHECKED_CAST")\n        return if (ContinuationInterceptor === key) this as E else null\n    }\n\n    public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n        // minusPolymorphicKey specialized for ContinuationInterceptor key\n        @OptIn(ExperimentalStdlibApi::class)\n        if (key is AbstractCoroutineContextKey<*, *>) {\n            return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n        }\n        return if (ContinuationInterceptor === key) EmptyCoroutineContext else this\n    }\n\n    /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    /**\n     * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n     * An indexed set is a mix between a set and a map.\n     * Every element in this set has a unique [Key].\n     */\n    @SinceKotlin("1.3")\n    public interface CoroutineContext {\n\n        /**\n         * Returns the element with the given [key] from this context or `null`.\n         */\n        public operator fun <E : Element> get(key: Key<E>): E?\n\n        /**\n         * Accumulates entries of this context starting with [initial] value and applying [operation]\n         * from left to right to current accumulator value and each element of this context.\n         */\n        public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n        /**\n         * Returns a context containing elements from this context and elements from other [context].\n         * The elements from this context with the same key as in the other one are dropped.\n         */\n        public operator fun plus(context: CoroutineContext): CoroutineContext =\n            if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n                context.fold(this) { acc, element ->\n                    val removed = acc.minusKey(element.key)\n                    if (removed === EmptyCoroutineContext) element else {\n                        // make sure interceptor is always last in the context (and thus is fast to get when present)\n                        val interceptor = removed[ContinuationInterceptor]\n                        if (interceptor == null)\n                            CombinedContext(removed, element) else {\n                                val left = removed.minusKey(ContinuationInterceptor)\n                                if (left === EmptyCoroutineContext)\n                                    CombinedContext(element, interceptor) else\n                                        CombinedContext(CombinedContext(left, element), interceptor)\n                            }\n                    }\n                }\n\n        /**\n         * Returns a context containing elements from this context, but without an element with the specified [key].\n         */\n        public fun minusKey(key: Key<*>): CoroutineContext\n\n        /**\n         * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\n         */\n        public interface Key<E : Element> {\n\n            /**\n             * An element of the [CoroutineContext].\n             *\n             * An element of the coroutine context is a singleton context by itself.\n             */\n            public interface Element : CoroutineContext {\n\n                /**\n                 * A key of this coroutine context element.\n                 */\n                public val key:

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Key<*>\n\n    public override operator fun <E : Element> get(key: Key<E>): E? =\n
@Suppress("UNCHECKED_CAST")\n        if (this.key == key) this as E else null\n\n    public override fun
<R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(initial, this)\n\n    public override fun
minusKey(key: Key<*>): CoroutineContext =\n        if (this.key == key) EmptyCoroutineContext else this\n
}\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.Element\n\nimport
kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n
*/\n\n@SinceKotlin("1.3")\n\npublic abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n * Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class
BaseElement : CoroutineContext.Element {\n *     companion object Key : CoroutineContext.Key<BaseElement>\n
*     override val key: CoroutineContext.Key<*> get() = Key\n *     // It is important to use getPolymorphicKey and
minusPolymorphicKey\n *     override fun <E : CoroutineContext.Element>
get(key: CoroutineContext.Key<E>): E? = getPolymorphicElement(key)\n *     override fun minusKey(key:
CoroutineContext.Key<*>): CoroutineContext = minusPolymorphicKey(key)\n * }\n * class DerivedElement :
BaseElement() {\n *     companion object Key : AbstractCoroutineContextKey<BaseElement,
DerivedElement>(BaseElement, { it as? DerivedElement })\n * }\n * // Now it is possible to query both
`BaseElement` and `DerivedElement`\n * someContext[BaseElement] // Returns BaseElement?, non-null both for
BaseElement and DerivedElement instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-
null only for DerivedElement instance\n * ```\n * @param B base class of a polymorphic element\n * @param
baseKey an instance of base key\n * @param E element type associated with the current key\n * @param safeCast a
function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type\n * and return
the element if it is a subtype of
[E] or `null` otherwise.\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n    baseKey: Key<B>,\n    private val safeCast: (element:
Element) -> E?)\n) : Key<E> {\n    private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n\n    internal fun tryCast(element:
Element): E? = safeCast(element)\n    internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See
[AbstractCoroutineContextKey] for the example of usage.\n
*/\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic fun <E : Element>
Element.getPolymorphicElement(key: Key<E>):
E? {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        @Suppress("UNCHECKED_CAST")\n        return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n    }\n
}\n\n@Suppress("UNCHECKED_CAST")\n    return if (this.key === key) this as E else null\n}\n\n/**\n * Returns
empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null`
otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is
associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for
the example of usage.\n * \n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic fun
Element.minusPolymorphicKey(key: Key<*>): CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*,
*>) {\n        return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n
}\n    return if (this.key === key) EmptyCoroutineContext

```

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else this\n}\n\n/**\n * An empty coroutine context.\n */\n@SinceKotlin("1.3")\npublic object
EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long = 0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key:
Key<E>): E? = null\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n    public
override fun plus(context: CoroutineContext): CoroutineContext = context\n    public override fun minusKey(key:
Key<*>): CoroutineContext = this\n    public override fun hashCode(): Int = 0\n    public override fun toString():
String = \"EmptyCoroutineContext\"\n}\n\n//----- internal impl -----\n\n// this class is not
exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works
naturally\n\n@SinceKotlin("1.3")\ninternal class CombinedContext(\n    private val left: CoroutineContext,\n    private val element: Element\n) : CoroutineContext, Serializable {\n    override fun <E : Element> get(key:
Key<E>): E? {\n        var cur = this\n        while (true) {\n            cur.element[key]?.let { return it }\n            val next
= cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return
next[key]\n            }\n        }\n    }\n\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n        operation(left.fold(initial, operation), element)\n\n    public override fun minusKey(key: Key<*>):
CoroutineContext {\n        element[key]?.let { return left }\n        val newLeft = left.minusKey(key)\n        return
when {\n            newLeft === left -> this\n            newLeft === EmptyCoroutineContext -> element\n        } else ->
CombinedContext(newLeft, element)\n    }\n\n    private fun size(): Int {\n        var cur = this\n        var size
= 2\n        while
(true) {\n            cur = cur.left as? CombinedContext ?: return size\n            size++\n        }\n    }\n\n    private fun
contains(element: Element): Boolean =\n        get(element.key) == element\n\n    private fun containsAll(context:
CombinedContext): Boolean {\n        var cur = context\n        while (true) {\n            if (!contains(cur.element))
return false\n            val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else
{\n                return contains(next as Element)\n            }\n        }\n    }\n\n    override fun equals(other: Any?):
Boolean =\n        this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override
fun toString(): String =\n        \"[\" + fold(\" \") { acc, element ->\n            if (acc.isEmpty()) element.toString() else
\"$acc, $element\"\n        } + \"]\"\n\n    private fun writeReplace(): Any {\n        val n = size()\n        val elements =
arrayOfNulls<CoroutineContext>(n)\n        var index = 0\n        fold(Unit) { _, element -> elements[index++] =
element }\n        check(index == n)\n        @Suppress(\"UNCHECKED_CAST\")\n        return Serialized(elements
as Array<CoroutineContext>)\n    }\n\n    private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\n        companion object {\n            private const val serialVersionUID: Long = 0L\n        }\n\n        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n}\n\n\"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.coroutines.intrinsics\n\nimport
kotlin.contracts.*\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the current
continuation instance inside suspend functions and either suspends\n * currently running coroutine or returns result
immediately without suspension.\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it
means that suspend function did suspend the execution and will\n * not return any result immediately. In this case,
the [Continuation] provided to the [block] shall be\n * resumed by invoking [Continuation.resumeWith] at some
moment in the\n * future when the result becomes available to resume the computation.\n * Otherwise, the
return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n *
It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n
* As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n
* its proper return type remains on the conscience of the suspend function's author.\n * Invocation of
[Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n *

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[ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n \* It is the invoker's responsibility to ensure that a proper invocation context is established.\n \* [Continuation.intercepted] can be used to acquire the intercepted continuation.\n \*\n \* Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n \* in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n \* continuation instance.\n

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*\n@SinceKotlin("1.3")\n@InlineOnly\n@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")\npublic suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n
    contract { callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n    throw
    NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")\n}\n\n/**\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will not return any result immediately.\n * \n * **Note: this value should not be used in general code.** Using it outside of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified behavior of the code.\n */\n\n// It is implemented as property with getter to avoid ProGuard <clint> problem with multifile IntrinsicKt class\n@SinceKotlin("1.3")\npublic val
COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1. It makes
SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n@SinceKotlin("1.3")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons {
COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n\n"/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:Suppress("EXPECT_AND_ACTUAL_IN_THE_SAME_MODULE") // for building kotlin-stdlib-jvm-minimal-for-test\n\npackage kotlin.enums\n\n/**\n * A specialized immutable implementation of [List] interface that\n * contains all enum entries of the specified enum type [E].\n * [EnumEntries] contains all enum entries in the order they are declared in the source code,\n * consistently with the corresponding [Enum.ordinal] values.\n * \n * An instance of this interface can only be obtained from `EnumClass.entries` property.\n * \n * #####\n * Implementation note\n * All basic operations, such as `contains` and `indexOf`, are executed in constant time and are likely to be\n * faster than regular `ArrayList<E>` counterparts.\n
*\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic sealed interface EnumEntries<E : Enum<E>> : List<E>\n\n@PublishedApi\n@SinceKotlin("1.8") // Used by pre-1.9.0 JVM compiler for the feature in preview mode. Can be safely removed around 2.1\ninternal fun <E : Enum<E>> enumEntries(entriesProvider: () -> Array<E>): EnumEntries<E> = EnumEntriesList(entriesProvider)\n\n@PublishedApi\n@SinceKotlin("1.8")\ninternal fun <E : Enum<E>> enumEntries(entries: Array<E>): EnumEntries<E> = EnumEntriesList(entries)\n\n@SinceKotlin("1.8")\nprivate class EnumEntriesList<T> : Enum<T>>(private val entries: Array<T>) : EnumEntries<T>, AbstractList<T>(), Serializable {\n\n    // WA for JS IR bug:\n    // class type parameter name MUST be different from E (AbstractList<E> type parameter),\n    // otherwise the bridge names for contains() and indexOf() will be clashed with the original method names,\n    // and produced JS code will not contain type checks and will not work correctly.\n\n    override val size: Int\n        get() = entries.size\n\n    override fun get(index: Int): T {\n        checkElementIndex(index, entries.size)\n        return entries[index]\n    }\n\n    // By definition, EnumEntries contains **all** enums in declaration order,\n    // thus we are able to short-circuit the implementation here\n\n    override fun contains(element: T): Boolean {\n        @Suppress("SENSELESS_COMPARISON")\n        if (element === null) return false // WA for JS IR bug\n        // Check identity due to UnsafeVariance\n        val target = entries.getOrNull(element.ordinal)\n
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return target === element\n } \n\n override fun indexOf(element: T): Int {\n
@Suppress(\\"SENSELESS_COMPARISON\\")\n if (element === null) return -1 // WA for JS IR bug\n //
Check identity due to UnsafeVariance\n val ordinal = element.ordinal\n val target =
entries.getOrNull(ordinal)\n return if (target === element) ordinal else -1\n } \n\n override fun
lastIndexOf(element: T): Int = indexOf(element)\n @Suppress(\\"unused\\")\n private fun writeReplace(): Any
{\n // Used for Java serialization: EESP ensures that deserialized object always reflects the state of the
enum on the target classpath\n return EnumEntriesSerializationProxy(entries)\n } \n\n\ninternal expect class
EnumEntriesSerializationProxy<E : Enum<E>>(entries: Array<E>)\n", /*\n * Copyright 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n * This annotation
marks the experimental [ObjCName][kotlin.native.ObjCName] annotation.\n
*\n@RequiresOptIn\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BI
NARY)\n@MustBeDocumented\n@SinceKotlin(\"1.8\")\npublic annotation class ExperimentalObjCName\n", /*\n
* Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.experimental\n\n/**\n * This annotation marks the experimental Objective-C export refinement annotations.\n
*\n@RequiresOptIn\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BI
NARY)\n@MustBeDocumented\n@SinceKotlin(\"1.8\")\npublic annotation class
ExperimentalObjCRefinement\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.experimental\n\n/**\n * Performs a bitwise AND operation between the two values.\n
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte =
(this.toInt() and other.toInt()).toByte()\n\n/**\n * Performs a bitwise OR operation between the two values.\n
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte =
(this.toInt() or other.toInt()).toByte()\n\n/**\n * Performs a bitwise XOR operation between the two values.\n
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte =
(this.toInt() xor other.toInt()).toByte()\n\n/**\n * Inverts the bits in this value.\n
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte =
(this.toInt().inv()).toByte()\n\n/**\n * Performs a bitwise AND
operation between the two values. *\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/**\n * Performs a bitwise OR operation
between the two values. *\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/**\n * Performs a bitwise XOR operation
between the two values. *\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun
Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/**\n * Inverts the bits in this value.\n
*\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short =
(this.toInt().inv()).toShort()\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
file.\n */\n\npackage kotlin.experimental\n\n/**\n * The experimental marker for type inference augmenting
annotations.\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted
either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n
* or by using the compiler argument `-opt-in=kotlin.experimental.ExperimentalTypeInference`.\n
*\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(A
nnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin(\"1.3\")\npublic annotation class
ExperimentalTypeInference\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language

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contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.internal\n\n/\*\*\n \* Specifies that the corresponding type should be ignored during type inference.\n \*/\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n\n/\*\*\n \* Specifies that the constraint built for the type during type inference should be an equality one.\n \*/\n\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n\n/\*\*\n \* Specifies that a corresponding member has the lowest priority in overload resolution.\n \*/\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n\n/\*\*\n \* Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n \* an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n \*/\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class HidesMembers\n\n/\*\*\n \* The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n \*/\n\n@Target(AnnotationTarget.TYPE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class OnlyInputTypes\n\n/\*\*\n \* Specifies that this function should not be called directly without inlining\n \*/\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY\_GETTER, AnnotationTarget.PROPERTY\_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class InlineOnly\n\n/\*\*\n \* Specifies that this declaration can have dynamic receiver type.\n \*/\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class DynamicExtension\n\n/\*\*\n \* The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n \* the backing field of which is accessible at the point where the corresponding argument is passed.\n \*/\n\n@Target(AnnotationTarget.VALUE\_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/\*\*\n \* Specifies that this declaration is only completely supported since the specified version.\n \* The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n \* The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n \* to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n \* is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n \* [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n \* Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE\_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n \* treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n \* [RequireKotlinVersionKind.LANGUAGE\_VERSION], [RequireKotlinVersionKind.COMPILER\_VERSION] and [RequireKotlinVersionKind.API\_VERSION].\n \* If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n \* Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n \* on the language version.\n \* This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n \*/\n\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.2")\ninternal annotation class RequireKotlin(\n val version: String,\n val message: String = "",\n val level: DeprecationLevel = DeprecationLevel.ERROR,\n val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE\_VERSION,\n val



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errorCode: Int = -1\n\n\n * The kind of the version that is required by [RequireKotlin].\n
*\n\n@SinceKotlin("1.2")\n\ninternal enum class RequireKotlinVersionKind {\n    LANGUAGE_VERSION,\n    COMPILER_VERSION,\n    API_VERSION,\n}\n\n\n * Specifies that this declaration is a part of special DSL,\n    used for constructing function's contract.\n
*\n\n@Retention(AnnotationRetention.BINARY)\n\n@SinceKotlin("1.2")\n\ninternal annotation class\n    ContractsDsl\n\n\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n\npackage kotlin.internal\n\n\n// a mod b (in arithmetical sense)\n\nprivate fun mod(a: Int, b: Int): Int\n    {\n        val mod = a % b\n        return if (mod >= 0) mod else mod + b\n    }\n\n\nprivate fun mod(a: Long, b: Long): Long\n    {\n        val mod = a % b\n        return if (mod >= 0) mod else mod + b\n    }\n\n\n// (a - b) mod c\n\nprivate fun\n    differenceModulo(a: Int, b: Int, c: Int): Int {\n        return mod(mod(a, c) - mod(b, c), c)\n    }\n\n\nprivate fun\n    differenceModulo(a: Long, b: Long, c: Long): Long {\n        return mod(mod(a, c) - mod(b, c), c)\n    }\n\n\n\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in\n    the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should satisfy the\n    condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment,\n    or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n *\n\n@PublishedApi\n\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when\n    {\n        step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n        step < 0 -> if (start <= end)\n            end else end + differenceModulo(start, end, -step)\n        else -> throw kotlin.IllegalArgumentException("Step is zero.")\n    }\n\n\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the\n    progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case\n    of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should\n    satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end ending bound\n    for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return\n    the final element of the progression\n * @suppress\n *\n\n@PublishedApi\n\ninternal fun\n    getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n        step > 0 -> if (start >= end) end\n            else end - differenceModulo(end, start, step)\n        step < 0 -> if (start <= end) end else end + differenceModulo(start,\n            end, -step)\n        else -> throw kotlin.IllegalArgumentException("Step is zero.")\n    }\n\n\n\n * Copyright 2010-2022\n    JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n    Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n\npackage kotlin.io.encoding\n\n\nimport\n    kotlin.native.concurrent.SharedImmutable\n\n\n// Benchmarks repository:\n    https://github.com/qurbonzoda/KotlinBase64Benchmarks\n\n\n * Provides Base64 encoding and decoding\n    functionality.\n * This class is not supposed\n    to be instantiated or inherited.\n * However, predefined instances of this class are available for use.\n * The\n    companion object [Base64.Default] is the default instance of [Base64].\n * There are also [Base64.UrlSafe] and\n    [Base64.Mime] instances.\n *\n\n@SinceKotlin("1.8")\n\n@ExperimentalEncodingApi\n\npublic open class Base64\n    private constructor(\n        internal val isUrlSafe: Boolean,\n        internal val isMimeScheme: Boolean\n    ) {\n        init {\n            require(!isUrlSafe || !isMimeScheme)\n        }\n    }\n\n\n * Encodes bytes from the specified [source] array or its\n    subrange.\n * Returns a [ByteArray] containing the resulting symbols.\n * If the size of the [source] array\n    or its subrange is not an integral multiple of 3,\n * the result is padded with `=` to an integral multiple of 4\n    symbols.\n * Each resulting symbol occupies one byte in the returned byte array.\n * Use [encode]\n    to get the output in string form.\n * @param source\n    the array to encode bytes from.\n * @param startIndex the beginning (inclusive) of the subrange to encode, 0 by\n    default.\n * @param endIndex the end (exclusive) of the subrange to encode, size of the [source] array by\n    default.\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of

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[source] array indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *\n *
@return a [ByteArray] with the resulting symbols.\n */\n public fun encodeToByteArray(source: ByteArray,
startIndex: Int = 0, endIndex: Int = source.size): ByteArray {\n    return platformEncodeToByteArray(source,
startIndex, endIndex)\n }\n\n /**\n * Encodes bytes from the specified [source] array or its subrange and
writes resulting symbols into the [destination] array.\n * Returns the number of symbols written.\n *\n * If
the size of the [source] array or its subrange is not an integral multiple of 3,\n *
the result is padded with `=` to an integral multiple of 4 symbols.\n *\n * @param source the array to encode
bytes from.\n * @param destination the array to write symbols into.\n * @param destinationOffset the starting
index in the [destination] array to write symbols to, 0 by default.\n * @param startIndex the beginning (inclusive)
of the subrange to encode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to encode, size
of the [source] array by default.\n *\n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex >
endIndex`.\n * @throws IndexOutOfBoundsException when the resulting symbols don't fit into the [destination]
array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n *\n * @return the number of symbols written into [destination]
array.\n */\n public fun encodeIntoByteArray(\n    source: ByteArray,\n    destination: ByteArray,\n    destinationOffset: Int = 0,\n    startIndex: Int = 0,\n    endIndex: Int = source.size\n ): Int {\n    return
platformEncodeIntoByteArray(source, destination, destinationOffset, startIndex, endIndex)\n }\n\n /**\n *
Encodes bytes from the specified [source] array or its subrange.\n * Returns a string with the resulting symbols.\n
*\n * If the size of the [source] array or its subrange is not an integral multiple of 3,\n * the result is padded
with `=` to an integral multiple of 4 symbols.\n *\n * Use [encodeToByteArray] to get the output in
[ByteArray] form.\n *\n * @param source the array to encode bytes from.\n * @param startIndex the
beginning (inclusive) of the subrange to encode, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to encode, size of the [source] array
by default.\n *\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of
[source] array indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *\n *
@return a string with the resulting symbols.\n */\n public fun encode(source: ByteArray, startIndex: Int = 0,
endIndex: Int = source.size): String {\n    return platformEncodeToString(source, startIndex, endIndex)\n }\n\n
/**\n * Encodes bytes from the specified [source] array or its subrange and appends resulting symbols to the
[destination] appendable.\n * Returns the destination appendable.\n *\n * If the size of the [source] array or
its subrange is not an integral multiple of 3,\n * the result is padded with `=` to an integral multiple of 4
symbols.\n *\n * @param source the array to encode bytes from.\n * @param destination the appendable to
append symbols to.\n * @param startIndex the beginning (inclusive)
of the subrange to encode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to encode, size
of the [source] array by default.\n *\n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex >
endIndex`.\n *\n * @return the destination appendable.\n */\n public fun <A : Appendable>
encodeToAppendable(\n    source: ByteArray,\n    destination: A,\n    startIndex: Int = 0,\n    endIndex: Int
= source.size\n ): A {\n    val stringResult = platformEncodeToString(source, startIndex, endIndex)\n    destination.append(stringResult)\n    return destination\n }\n\n /**\n * Decodes symbols from the specified
[source] array or its subrange.\n * Returns a [ByteArray] containing the resulting bytes.\n *\n * The symbols
for decoding are not required to be padded.\n * However, if there
is a padding character present, the correct amount of padding character(s) must be present.\n * The padding
character `=` is interpreted as the end of the encoded byte data. Subsequent symbols are prohibited.\n *\n *
@param source the array to decode symbols from.\n * @param startIndex the beginning (inclusive) of the
subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of the
[source] array by default.\n *\n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out
of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex > endIndex`.\n *

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@throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are extra
symbols after the padding.\n * \n * @return a [ByteArray] with the resulting bytes.\n * \n public fun
decode(source: ByteArray, startIndex: Int = 0, endIndex: Int = source.size): ByteArray {\n
    checkSourceBounds(source.size, startIndex, endIndex)\n\n    val decodeSize = decodeSize(source, startIndex,
endIndex)\n    val destination = ByteArray(decodeSize)\n\n    val bytesWritten = decodeImpl(source,
destination, 0, startIndex, endIndex)\n\n    check(bytesWritten == destination.size)\n\n    return destination\n
}\n\n /** \n * Decodes symbols from the specified [source] array or its subrange and writes resulting bytes into
the [destination] array.\n * Returns the number of bytes written.\n * \n * The symbols for decoding are not
required to be padded.\n * However, if there is a padding character present, the correct amount of padding
character(s) must be present.\n * The padding character '=' is interpreted as the end of the encoded byte data.
Subsequent symbols are prohibited.\n * \n * @param source the array to decode symbols from.\n * @param
destination the array to write bytes into.\n * @param destinationOffset
the starting index in the [destination] array to write bytes to, 0 by default.\n * @param startIndex the beginning
(inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to
decode, size of the [source] array by default.\n * \n * @throws IndexOutOfBoundsException when [startIndex]
or [endIndex] is out of range of [source] array indices.\n * @throws IllegalArgumentException when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the resulting bytes don't fit into the [destination]
array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are
extra symbols after the padding.\n * \n * @return the number of bytes written into [destination] array.\n * \n
public fun decodeIntoByteArray(\n    source: ByteArray,\n
    destination: ByteArray,\n    destinationOffset: Int = 0,\n    startIndex: Int = 0,\n    endIndex: Int =
source.size\n ): Int {\n    checkSourceBounds(source.size, startIndex, endIndex)\n
checkDestinationBounds(destination.size, destinationOffset, decodeSize(source, startIndex, endIndex))\n\n
return decodeImpl(source, destination, destinationOffset, startIndex, endIndex)\n } \n\n /** \n * Decodes
symbols from the specified [source] char sequence or its substring.\n * Returns a [ByteArray] containing the
resulting bytes.\n * \n * The symbols for decoding are not required to be padded.\n * However, if there is a
padding character present, the correct amount of padding character(s) must be present.\n * The padding character
 '=' is interpreted as the end of the encoded byte data. Subsequent symbols are prohibited.\n * \n * @param
source the char sequence to decode symbols from.\n * @param startIndex the beginning
(inclusive) of the substring to decode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to
decode, length of the [source] by default.\n * \n * @throws IndexOutOfBoundsException when [startIndex] or
[endIndex] is out of range of [source] indices.\n * @throws IllegalArgumentException when `startIndex >
endIndex`.\n * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or
there are extra symbols after the padding.\n * \n * @return a [ByteArray] with the resulting bytes.\n * \n
public fun decode(source: CharSequence, startIndex: Int = 0, endIndex: Int = source.length): ByteArray {\n    val
byteSource = platformCharsToBytes(source, startIndex, endIndex)\n    return decode(byteSource)\n } \n\n
/** \n * Decodes symbols from the specified [source] char sequence or its substring and writes resulting bytes into
the [destination] array.\n * Returns the number of bytes written.\n
*\n * The symbols for decoding are not required to be padded.\n * However, if there is a padding character
present, the correct amount of padding character(s) must be present.\n * The padding character '=' is interpreted
as the end of the encoded byte data. Subsequent symbols are prohibited.\n * \n * @param source the char
sequence to decode symbols from.\n * @param destination the array to write bytes into.\n * @param
destinationOffset the starting index in the [destination] array to write bytes to, 0 by default.\n * @param
startIndex the beginning (inclusive) of the substring to decode, 0 by default.\n * @param endIndex the end
(exclusive) of the substring to decode, length of the [source] by default.\n * \n * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of [source] indices.\n * @throws
IllegalArgumentException when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the

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resulting

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bytes don't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @throws IllegalArgumentException when the symbols for decoding are padded incorrectly or there are extra symbols after the padding.\n *\n * @return the number of bytes written into [destination] array.\n */\n public fun decodeIntoByteArray(\n     source: CharSequence,\n     destination: ByteArray,\n     destinationOffset: Int = 0,\n     startIndex: Int = 0,\n     endIndex: Int = source.length\n ): Int {\n     val byteSource = platformCharsToBytes(source, startIndex, endIndex)\n     return decodeIntoByteArray(byteSource, destination, destinationOffset)\n }\n\n // internal functions\n\n internal fun encodeToByteArrayImpl(source: ByteArray, startIndex: Int, endIndex: Int): ByteArray {\n     checkSourceBounds(source.size, startIndex, endIndex)\n     val encodeSize = encodeSize(endIndex - startIndex)\n     val destination = ByteArray(encodeSize)\n     encodeIntoByteArrayImpl(source, destination, 0, startIndex, endIndex)\n     return destination\n }\n\n internal fun encodeIntoByteArrayImpl(\n     source: ByteArray,\n     destination: ByteArray,\n     destinationOffset: Int,\n     startIndex: Int,\n     endIndex: Int\n ): Int {\n     checkSourceBounds(source.size, startIndex, endIndex)\n     checkDestinationBounds(destination.size, destinationOffset, encodeSize(endIndex - startIndex))\n     val encodeMap = if (isUrlSafe) base64UrlEncodeMap else base64EncodeMap\n     var sourceIndex = startIndex\n     var destinationIndex = destinationOffset\n     val groupsPerLine = if (isMimeScheme) mimeGroupsPerLine else Int.MAX_VALUE\n     while (sourceIndex + 2 < endIndex) {\n         val groups = minOf((endIndex - sourceIndex) / bytesPerGroup, groupsPerLine)\n         for (i in 0 until groups)\n             val byte1 = source[sourceIndex++].toInt() and 0xFF\n             val byte2 = source[sourceIndex++].toInt() and 0xFF\n             val byte3 = source[sourceIndex++].toInt() and 0xFF\n             val bits = (byte1 shl 16) or (byte2 shl 8) or byte3\n             destination[destinationIndex++] = encodeMap[bits ushr 18]\n             destination[destinationIndex++] = encodeMap[(bits ushr 12) and 0x3F]\n             destination[destinationIndex++] = encodeMap[(bits ushr 6) and 0x3F]\n             destination[destinationIndex++] = encodeMap[bits and 0x3F]\n             }\n         if (groups == groupsPerLine && sourceIndex != endIndex) {\n             destination[destinationIndex++] = mimeLineSeparatorSymbols[0]\n             destination[destinationIndex++] = mimeLineSeparatorSymbols[1]\n             }\n         }\n     when (endIndex - sourceIndex) {\n         1 -> {\n             val byte1 = source[sourceIndex++].toInt() and 0xFF\n             val bits = byte1 shl 4\n             destination[destinationIndex++] = encodeMap[bits ushr 6]\n             destination[destinationIndex++] = encodeMap[bits and 0x3F]\n             destination[destinationIndex++] = padSymbol\n             destination[destinationIndex++] = padSymbol\n             }\n         2 -> {\n             val byte1 = source[sourceIndex++].toInt() and 0xFF\n             val byte2 = source[sourceIndex++].toInt() and 0xFF\n             val bits = (byte1 shl 10) or (byte2 shl 2)\n             destination[destinationIndex++] = encodeMap[bits ushr 12]\n             destination[destinationIndex++] = encodeMap[(bits ushr 6) and 0x3F]\n             destination[destinationIndex++] = encodeMap[bits and 0x3F]\n             destination[destinationIndex++] = padSymbol\n             }\n         }\n     }\n     check(sourceIndex == endIndex)\n     return destinationIndex - destinationOffset\n }\n\n private fun encodeSize(sourceSize: Int): Int {\n     // includes padding chars\n     val groups = (sourceSize + bytesPerGroup - 1) / bytesPerGroup\n     val lineSeparators = if (isMimeScheme) (groups - 1) / mimeGroupsPerLine else 0\n     val size = groups * symbolsPerGroup + lineSeparators * 2\n     if (size < 0) { // Int overflow\n         throw\n     }\n     return size\n }\n\n private fun decodeImpl(\n     source: ByteArray,\n     destination: ByteArray,\n     destinationOffset: Int,\n     startIndex: Int,\n     endIndex: Int\n ): Int {\n     val decodeMap = if (isUrlSafe) base64UrlDecodeMap else base64DecodeMap\n     var payload = 0\n     var byteStart = -bitsPerByte\n     var sourceIndex = startIndex\n     var destinationIndex = destinationOffset\n     while (sourceIndex < endIndex) {\n         if (byteStart == -bitsPerByte && sourceIndex + 3 < endIndex) {\n             val symbol1 = decodeMap[source[sourceIndex++].toInt() and 0xFF]\n             val symbol2 = decodeMap[source[sourceIndex++].toInt() and 0xFF]\n             val symbol3 =
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decodeMap[source[sourceIndex++].toInt() and 0xFF)\n        val symbol4 =
decodeMap[source[sourceIndex++].toInt() and 0xFF)\n        val bits = (symbol1 shl 18) or (symbol2 shl 12) or
(symbol3 shl 6) or symbol4\n        if (bits >= 0) { // all base64 symbols\ndestination[destinationIndex++] = (bits shr 16).toByte()\n        destination[destinationIndex++] = (bits shr
8).toByte()\n        destination[destinationIndex++] = bits.toByte()\n        continue\n    }\n    sourceIndex -= 4\n    }\n    val symbol = source[sourceIndex].toInt() and 0xFF\n    val
symbolBits = decodeMap[symbol]\n    if (symbolBits < 0) {\n        if (symbolBits == -2) {\nsourceIndex = handlePaddingSymbol(source,
sourceIndex, endIndex, byteStart)\n        break\n        } else if (isMimeScheme) {\nsourceIndex += 1\n        continue\n        } else {\n            throw
IllegalArgumentExcep­tion("Invalid symbol '${symbol.toChar()}'('${symbol.toString(radix = 8)}) at index
${sourceIndex}")\n        }\n    } else {\n        sourceIndex += 1\n        }\n    }\n    payload = (payload
shl bitsPerSymbol) or symbolBits\n    byteStart += bitsPerSymbol\n    if (byteStart >= 0) {\ndestination[destinationIndex++] = (payload ushr byteStart).toByte()\n    payload = payload and ((1 shl
byteStart) - 1)\n    byteStart -= bitsPerByte\n    }\n    }\n    // pad or end of input\n    if
(byteStart == -bitsPerByte + bitsPerSymbol) { // dangling single symbol, incorrectly encoded\n        throw
IllegalArgumentExcep­tion("The
last unit of input does not have enough bits")\n    }\n    // check(payload == 0) // the padded bits are allowed
to be non-zero\n    sourceIndex = skipIllegalSymbolsIfMime(source, sourceIndex, endIndex)\n    if
(sourceIndex < endIndex) {\n        val symbol = source[sourceIndex].toInt() and 0xFF\n        throw
IllegalArgumentExcep­tion("Symbol '${symbol.toChar()}'('${symbol.toString(radix = 8)}) at index ${sourceIndex -
1} is prohibited after the pad character")\n    }\n    return destinationIndex - destinationOffset\n    }\n}
private fun decodeSize(source: ByteArray, startIndex: Int, endIndex: Int): Int {\n    var symbols = endIndex -
startIndex\n    if (symbols == 0) {\n        return 0\n    }\n    if (symbols == 1) {\n        throw
IllegalArgumentExcep­tion("Input should have at list 2 symbols for Base64 decoding, startIndex: $startIndex,
endIndex: $endIndex")\n    }\n    if (isMimeScheme) {\n        for (index in startIndex until endIndex) {\n            val symbol = source[index].toInt() and 0xFF\n            val
symbolBits = base64DecodeMap[symbol]\n            if (symbolBits < 0) {\n                if (symbolBits == -2) {\n                    symbols -= endIndex - index\n                    break\n                }\n                symbols--\n            }\n        }\n        } else if (source[endIndex - 1] == padSymbol) {\n            symbols--\n            if (source[endIndex
- 2] == padSymbol) {\n                symbols--\n            }\n        }\n        return ((symbols.toLong() * bitsPerSymbol) /
bitsPerByte).toInt() // conversion due to possible Int overflow\n    }\n    internal fun charsToBytesImpl(source:
CharSequence, startIndex: Int, endIndex: Int): ByteArray {\n        checkSourceBounds(source.length, startIndex,
endIndex)\n        val byteArray = ByteArray(endIndex - startIndex)\n        var length = 0\n        for
(index in startIndex until endIndex) {\n            val symbol = source[index].code\n            if (symbol <= 0xFF) {\n                byteArray[length++] = symbol.toByte()\n            } else {\n                // the replacement byte must be an illegal
symbol\n                // so that mime skips it and basic throws with correct index\n                byteArray[length++] =
0x3F\n            }\n        }\n        return byteArray\n    }\n    internal fun bytesToStringImpl(source: ByteArray):
String {\n        val stringBuilder = StringBuilder(source.size)\n        for (byte in source) {\n            stringBuilder.append(byte.toInt().toChar())\n        }\n        return stringBuilder.toString()\n    }\n    private fun
handlePaddingSymbol(source: ByteArray, padIndex: Int, endIndex: Int, byteStart: Int): Int {\n        return when
(byteStart) {\n            -bitsPerByte -> // =\n                throw IllegalArgumentExcep­tion("Redundant pad character at
index $padIndex")\n            -bitsPerByte + bitsPerSymbol -> // x=, dangling single symbol\n                padIndex + 1\n            -bitsPerByte + 2
* bitsPerSymbol - bitsPerByte -> { // xx=\n                val secondPadIndex = skipIllegalSymbolsIfMime(source,
padIndex + 1, endIndex)\n                if (secondPadIndex == endIndex || source[secondPadIndex] != padSymbol) {\n                    throw IllegalArgumentExcep­tion("Missing one pad character at index $secondPadIndex")\n                }\n                secondPadIndex + 1\n            }\n            -bitsPerByte + 3 * bitsPerSymbol - 2 * bitsPerByte -> // xxx=\n

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        padIndex + 1\n        else ->\n            error(\"Unreachable\")\n        }\n    }\n    private fun
skipIllegalSymbolsIfMime(source: ByteArray, startIndex: Int, endIndex: Int): Int {\n        if (!isMimeScheme) {\n
        return startIndex\n        }\n        var sourceIndex = startIndex\n        while (sourceIndex < endIndex) {\n            val
symbol = source[sourceIndex].toInt()
and 0xFF\n            if (base64DecodeMap[symbol] != -1) {\n                return sourceIndex\n            }\n
sourceIndex += 1\n        }\n        return sourceIndex\n    }\n    internal fun checkSourceBounds(sourceSize: Int,
startIndex: Int, endIndex: Int) {\n        AbstractList.checkBoundsIndexes(startIndex, endIndex, sourceSize)\n    }\n
    private fun checkDestinationBounds(destinationSize: Int, destinationOffset: Int, capacityNeeded: Int) {\n        if
(destinationOffset < 0 || destinationOffset > destinationSize) {\n            throw
IndexOutOfBoundsException(\"destination offset: $destinationOffset, destination size: $destinationSize\")\n
        }\n        val destinationEndIndex = destinationOffset + capacityNeeded\n        if (destinationEndIndex < 0 ||
destinationEndIndex > destinationSize) {\n            throw IndexOutOfBoundsException(\n                \"The
destination array does not have enough capacity, \" +\n
                \"destination offset: $destinationOffset, destination size: $destinationSize, capacity needed: $capacityNeeded\")\n
        }\n    }\n    companion object\n    /**\n     * The \"base64\" encoding specified by [RFC 4648
section 4](https://www.rfc-editor.org/rfc/rfc4648#section-4),\n     * Base 64 Encoding.\n     * Uses \"The
Base 64 Alphabet\" as specified in Table 1 of RFC 4648 for encoding and decoding.\n     * Encode operation does
not add any line separator character.\n     * Decode operation throws if it encounters a character outside the base64
alphabet.\n     * The character '=' is used for padding.\n     */\n    public companion object Default :
Base64(isUrlSafe = false, isMimeScheme = false) {\n        private const val bitsPerByte: Int = 8\n        private
const val bitsPerSymbol: Int = 6\n        internal const val bytesPerGroup: Int = 3\n        internal const val
symbolsPerGroup: Int = 4\n        internal const val padSymbol:
Byte = 61 // '='\n        internal const val mimeLineLength: Int = 76\n        private const val mimeGroupsPerLine:
Int = mimeLineLength / symbolsPerGroup\n        internal val mimeLineSeparatorSymbols: ByteArray =
byteArrayOf(\"r'.code.toByte(), \"n'.code.toByte())\n        /**\n         * The \"base64url\" encoding specified by
[RFC 4648 section 5](https://www.rfc-editor.org/rfc/rfc4648#section-5),\n         * Base 64 Encoding with URL and
Filename Safe Alphabet.\n         * Uses \"The URL and Filename safe Base 64 Alphabet\" as specified in
Table 2 of RFC 4648 for encoding and decoding.\n         * Encode operation does not add any line separator
character.\n         * Decode operation throws if it encounters a character outside the base64url alphabet.\n         *
The character '=' is used for padding.\n         */\n        public val UrlSafe: Base64 = Base64(isUrlSafe = true,
isMimeScheme = false)\n        /**\n         * The encoding specified
by [RFC 2045 section 6.8](https://www.rfc-editor.org/rfc/rfc2045#section-6.8),\n         * Base64 Content-
Transfer-Encoding.\n         * Uses \"The Base64 Alphabet\" as specified in Table 1 of RFC 2045 for
encoding and decoding.\n         * Encode operation adds CRLF every 76 symbols. No line separator is added to the
end of the encoded output.\n         * Decode operation ignores all line separators and other characters outside the
base64 alphabet.\n         * The character '=' is used for padding.\n         */\n        public val Mime: Base64
= Base64(isUrlSafe = false, isMimeScheme = true)\n    }\n}\n\n//
\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n\n@SharedImmutable\nprivate val base64EncodeMap = byteArrayOf(\n    65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79,
80, /* 0 - 15 */\n    81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 97, 98, 99, 100, 101, 102, /* 16 - 31 */\n    103,
104, 105, 106,
    107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, /* 32 - 47 */\n    119, 120, 121, 122, 48, 49, 50, 51,
52, 53, 54, 55, 56, 57, 43, 47, /* 48 - 63 */\n)\n\n@ExperimentalEncodingApi\n@SharedImmutable\nprivate
val base64DecodeMap = IntArray(256).apply {\n    this.fill(-1)\n    this[Base64.padSymbol.toInt()] = -2\n}
base64EncodeMap.forEachIndexed { index, symbol ->\n    this[symbol.toInt()] = index\n}\n\n//
\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789-
_\"@SharedImmutable\nprivate val base64UrlEncodeMap = byteArrayOf(\n    65, 66, 67, 68, 69, 70, 71, 72,
73, 74, 75, 76, 77, 78, 79, 80, /* 0 - 15 */\n    81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 97, 98, 99, 100, 101,

```

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102, /* 16 - 31 */\n 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, /* 32 - 47 */\n
119, 120, 121, 122, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 45, 95, /* 48 - 63
*/\n)\n\n@ExperimentalEncodingApi\n@SharedImmutable\nprivate
val base64UrlDecodeMap = IntArray(256).apply {\n this.fill(-1)\n this[Base64.padSymbol.toInt()] = -2\n
base64UrlEncodeMap.forEachIndexed { index, symbol ->\n this[symbol.toInt()] = index\n
}\n}\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\ninternal fun isInMimeAlphabet(symbol: Int):
Boolean {\n return symbol in base64DecodeMap.indices && base64DecodeMap[symbol] != -
1\n}\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformCharsToBytes(\n source: CharSequence,\n startIndex: Int,\n endIndex: Int\n):
ByteArray\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeToString(\n source: ByteArray,\n startIndex: Int,\n endIndex: Int\n):
String\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeIntoByteArray(\n source: ByteArray,\n destination: ByteArray,\n destinationOffset:
Int,\n startIndex:
Int,\n endIndex: Int\n): Int\n\n@SinceKotlin("1.8")\n@ExperimentalEncodingApi\ninternal expect fun
Base64.platformEncodeToByteArray(\n source: ByteArray,\n startIndex: Int,\n endIndex: Int\n):
ByteArray", /*\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.io.encoding\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks
the experimental API for encoding and decoding between binary data and printable ASCII character sequences.\n
*\n * > Beware using the annotated API especially if you're developing a library, since your library might become
binary incompatible\n * with the future versions of the standard library.\n * Any usage of a declaration annotated
with `@ExperimentalEncodingApi` must be accepted either by\n * annotating that usage with the [OptIn]
annotation,
e.g. `@OptIn(ExperimentalEncodingApi::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.io.encoding.ExperimentalEncodingApi`.\n */\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n
ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n
CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n
TYPEALIAS)\n\n@MustBeDocumented\n@SinceKotlin("1.8")\npublic annotation class
ExperimentalEncodingApi", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n */\npublic object Delegates {\n /**\n * Returns a property delegate for a read/write
property with a non-`null` value that is initialized
not during\n * object construction time but at a later time. Trying to read the property before the initial value has
been\n * assigned results in an exception.\n * @sample samples.properties.Delegates.notNullDelegate\n
*/\n public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\n /**\n * Returns a
property delegate for a read/write property that calls a specified callback function when changed.\n * @param
initialValue the initial value of the property.\n * @param onChange the callback which is called after the change
of the property is made. The value of the property\n * has already been changed when this callback is invoked.\n
*\n * @sample samples.properties.Delegates.observableDelegate\n */\n public inline fun <T>
observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n
ReadWriteProperty<Any?, T> =\n object : ObservableProperty<T>(initialValue)
{\n override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property,
oldValue, newValue)\n } \n\n /**\n * Returns a property delegate for a read/write property that calls a
specified callback function when changed,\n * allowing the callback to veto the modification.\n * @param
initialValue the initial value of the property.\n * @param onChange the callback which is called before a change

```

to the property value is attempted.  `*`  The value of the property hasn't been changed yet, when this callback is invoked.  `*`  If the callback returns  ``true``  the value of the property is being set to the new value,  `*`  and if the callback returns  ``false``  the new value is discarded and the property remains its old value.  `*`   `*`   `@sample`   
 `samples.properties.Delegates.vetoableDelegate`   `*`   `@sample`   
 `samples.properties.Delegates.throwVetoableDelegate`   `*`   `^`   `public inline fun <T> vetoable(initialValue:`   
 `T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):`   
 `ReadWriteProperty<Any?, T> =`   `object : ObservableProperty<T>(initialValue) {`   `override fun`   
 `beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,`   
 `newValue)`   `}`  `private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {`   `private var`   
 `value: T? = null`   `public override fun getValue(thisRef: Any?, property: KProperty<*>): T {`   `return value`   
 `?: throw IllegalStateException("Property ${property.name} should be initialized before get.")`   `}`  `public`   
 `override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {`   `this.value = value`   `}`  `public`   
 `override fun toString(): String =`   `"NotNullProperty(${if (value != null) "value=$value" else "value`   
 `not initialized yet"})"`   `}`  `*`  Copyright 2010-2020 JetBrains s.r.o. and  
Kotlin Programming Language contributors.  `*`  Use of this source code is governed by the Apache 2.0 license that  
can be found in the license/LICENSE.txt file.  `*`   `^`   `package kotlin.properties`   `import`   
 `kotlin.reflect.KProperty`   `/**`   `*`  Base interface that can be used for implementing property delegates of read-only  
properties.  `*`   `*`  This is provided only for convenience; you don't have to extend this interface  `*`  as long as your  
property delegate has methods with the same signatures.  `*`   `*`   `@param T`  the type of object which owns the  
delegated property.  `*`   `@param V`  the type of the property value.  `*`   `^`   `public fun interface ReadOnlyProperty<in`   
 `T, out V> {`   `/**`   `*`  Returns the value of the property for the given object.  `*`   `@param thisRef`  the object  
for which the value is requested.  `*`   `@param property`  the metadata for the property.  `*`   `@return`  the property  
value.  `*`   `^`   `public operator fun getValue(thisRef: T, property: KProperty<*>): V`   `}`  `/**`   `*`   
Base interface that can be used for implementing property delegates of read-write properties.  `*`   `*`  This is  
provided only for convenience; you don't have to extend this interface  `*`  as long as your property delegate has  
methods with the same signatures.  `*`   `*`   `@param T`  the type of object which owns the delegated property.  `*`   
 `@param V`  the type of the property value.  `*`   `^`   `public interface ReadWriteProperty<in T, V> :`   
 `ReadOnlyProperty<T, V> {`   `/**`   `*`  Returns the value of the property for the given object.  `*`   `@param`   
 `thisRef`  the object for which the value is requested.  `*`   `@param property`  the metadata for the property.  `*`   
 `@return`  the property value.  `*`   `^`   `public override operator fun getValue(thisRef: T, property: KProperty<*>):`   
 `V`   `/**`   `*`  Sets the value of the property for the given object.  `*`   `@param thisRef`  the object for which the  
value is requested.  `*`   `@param property`  the metadata for the property.  `*`   `@param value`  the value to  
set.  `*`   `^`   `public operator fun setValue(thisRef: T, property: KProperty<*>, value: V)`   `}`  `/**`   `*`  Base  
interface that can be used for implementing property delegate providers.  `*`   `*`  This is provided only for  
convenience; you don't have to extend this interface  `*`  as long as your delegate provider has a method with the  
same signature.  `*`   `*`   `@param T`  the type of object which owns the delegated property.  `*`   `@param D`  the type of  
property delegates this provider provides.  `*`   `^`   `@SinceKotlin("1.4")`   `public fun interface`   
 `PropertyDelegateProvider<in T, out D> {`   `/**`   `*`  Returns the delegate of the property for the given object.  `*`   
 `*`   `*`  This function can be used to extend the logic of creating the object (e.g. perform validation checks)  `*`   `*`  to  
which the property implementation is delegated.  `*`   `*`   `@param thisRef`  the object for which property delegate  
is requested.  `*`   `@param property`  the metadata for the property.  `*`   `@return`  the property  
delegate.  `*`   `^`   `public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D`   `}`  `*`   
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.  `*`  Use of this source code is  
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  `*`   `^`   `package`   
 `kotlin.properties`   `import`   `kotlin.reflect.KProperty`   `/**`   `*`  Implements the core logic of a property delegate for a  
read/write property that calls callback functions when changed.  `*`   `@param initialValue`  the initial value of the  
property.  `*`   `^`   `public abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {`   
 `private var value = initialValue`   `/**`   `*`  The callback which is called before a change to the property value



```

is attempted.\n * The value of the property hasn't been changed yet, when this callback is invoked.\n * If the
callback returns `true` the value of the property is being set to the new value,\n
* and if the callback returns `false` the new value is discarded and the property remains its old value.\n */\n
protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n /**\n
* The callback which is called after the change of the property is made. The value of the property\n * has already
been changed when this callback is invoked.\n */\n protected open fun afterChange(property: KProperty<*>,
oldValue: V, newValue: V): Unit {} \n\n public override fun getValue(thisRef: Any?, property: KProperty<*>): V
{\n     return value\n }\n\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n
    val oldValue = this.value\n    if (!beforeChange(property, oldValue, value)) {\n        return\n    }\n
this.value = value\n    afterChange(property, oldValue, value)\n }\n\n override fun toString(): String =
"ObservableProperty(value=$value)\n", "/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress("PackageDirectoryMismatch")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An
extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property
of type [V] or its subtype.\n * @receiver A property reference to a read-only or mutable property of type [V] or
its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the
receiver bound to it.\n * Example:\n * ```\n * class Login(val username: String)\n * val defaultLogin =
Login("Admin")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName
get() = defaultLogin.username\n * ```\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline
operator
fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n    return get()\n}\n\n/**\n * An
extension operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable
property of the same type [V].\n * @receiver A property reference to a mutable property of type [V].\n * The
reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n
* Example:\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val
defaultLogin = Login("Admin")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * //
equivalent to\n * var defaultLoginAttempts: Int\n *     get() = defaultLogin.incorrectAttemptCounter\n *
set(value) { defaultLogin.incorrectAttemptCounter = value }\n * ```\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>,
value: V) {\n    set(value)\n}\n\n/**\n * An extension operator that allows delegating a read-only member or
extension property of type [V]\n * to a property reference to a member or extension property of type [V] or its
subtype.\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n *
The reference has an unbound receiver of type [T].\n * Example:\n * ```\n * class Login(val username:
String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n *
```\n */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T,
V>.getValue(thisRef: T, property: KProperty<*>): V {\n    return get(thisRef)\n}\n\n/**\n * An extension operator
that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member
or extension mutable property of the same type [V].\n * @receiver A property reference
to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type
[T].\n * Example:\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var
Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n *     get() =
this.incorrectAttemptCounter\n *     set(value) { this.incorrectAttemptCounter = value }\n * ```\n
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T,
V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n    set(thisRef, value)\n}, "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport

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kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n *\n@SinceKotlin("1.3")\npublic abstract class Random {\n\n    /**\n     * Gets the next random [bitCount] number of bits.\n     *\n     * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n     *\n     * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n     *\n     * @sample samples.random.Randoms.nextBits\n     */\n    public abstract fun nextBits(bitCount: Int): Int\n\n    /**\n     * Gets the next random `Int` from the random number generator.\n     *\n     * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n     *\n     * @sample samples.random.Randoms.nextInt\n     */\n    public open fun nextInt(): Int = nextBits(32)\n\n    /**\n     * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n     *\n     * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n     *\n     * @param until must be positive.\n     *\n     * @throws IllegalArgumentException if [until] is negative or zero.\n     *\n     * @sample samples.random.Randoms.nextIntFromUntil\n     */\n    public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n    /**\n     * Gets the next random `Int` from the random number generator in the specified range.\n     *\n     * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n     *\n     * @sample samples.random.Randoms.nextIntFromUntil\n     */\n    public open fun nextInt(from: Int, until: Int): Int {\n        checkRangeBounds(from, until)\n        val n = until - from\n        if (n > 0 || n == Int.MIN_VALUE) {\n            val rnd = if (n and -n == n) {\n                val bitCount = fastLog2(n)\n                nextBits(bitCount)\n            } else {\n                var v: Int\n                do {\n                    val bits = nextInt().ushr(1)\n                    v = bits % n\n                } while (bits - v + (n - 1) < 0)\n                v\n            }\n            return from + rnd\n        } else {\n            while (true) {\n                val rnd = nextInt()\n                if (rnd in from until until) return rnd\n            }\n        }\n    }\n\n    /**\n     * Gets the next random `Long` from the random number generator.\n     *\n     * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n     *\n     * @sample samples.random.Randoms.nextLong\n     */\n    public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n    /**\n     * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n     *\n     * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n     *\n     * @param until must be positive.\n     *\n     * @throws IllegalArgumentException if [until] is negative or zero.\n     *\n     * @sample samples.random.Randoms.nextLongFromUntil\n     */\n    public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n    /**\n     * Gets the next random `Long` from the random number generator in the specified range.\n     *\n     * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n     *\n     * @sample samples.random.Randoms.nextLongFromUntil\n     */\n    public open fun nextLong(from: Long, until: Long): Long {\n        checkRangeBounds(from, until)\n        val n = until - from\n        if (n > 0) {\n            val rnd: Long\n            if (n and -n == n) {\n                val nLow = n.toInt()\n                val nHigh = (n ushr 32).toInt()\n                rnd = when {\n                    nLow != 0 -> {\n                        val bitCount = fastLog2(nLow)\n                        // toUInt().toLong()\n                        nextBits(bitCount).toLong() and 0xFFFF_FFFF\n                    }\n                    nHigh == 1 -> {\n                        // toUInt().toLong()\n                        nextInt().toLong() and 0xFFFF_FFFF\n                    }\n                    else -> {\n                        val bitCount = fastLog2(nHigh)\n                        nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n                    }\n                }\n            } else {\n                var v: Long\n                do {\n                    val bits = nextLong().ushr(1)\n                    v = bits % n\n                } while (bits - v + (n - 1) < 0)\n                rnd = v\n            }\n            return from + rnd\n        } else {\n            while

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(true) {\n          val rnd = nextLong()\n          if (rnd in from until until) return rnd\n          }\n }\n }\n\n /**\n  * Gets the next random [Boolean] value.\n  *\n  * @sample samples.random.Randoms.nextBoolean\n  *\n  public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**\n  * Gets the next random [Double]\n  value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n  *\n  * @sample\n  samples.random.Randoms.nextDouble\n  *\n  public open fun nextDouble(): Double =\n  doubleFromParts(nextBits(26), nextBits(27))\n\n /**\n  * Gets the next random non-negative `Double` from the\n  random number generator less than the specified\n  [until] bound.\n  *\n  * Generates a `Double` random value uniformly distributed between 0 (inclusive) and\n  [until] (exclusive).\n  *\n  * @throws IllegalArgumentException if [until] is negative or zero.\n  *\n  * @sample samples.random.Randoms.nextDoubleFromUntil\n  *\n  public open fun nextDouble(until: Double):\n  Double = nextDouble(0.0, until)\n\n /**\n  * Gets the next random `Double` from the random number generator\n  in the specified range.\n  *\n  * Generates a `Double` random value uniformly distributed between the specified\n  [from] (inclusive) and [until] (exclusive) bounds.\n  *\n  * [from] and [until] must be finite otherwise the\n  behavior is unspecified.\n  *\n  * @throws IllegalArgumentException if [from] is greater than or equal to\n  [until].\n  *\n  * @sample samples.random.Randoms.nextDoubleFromUntil\n  *\n  public open fun\n  nextDouble(from: Double, until: Double): Double {\n    checkRangeBounds(from, until)\n    val size = until - from\n    val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n      val r1 =\n      nextDouble() * (until / 2 - from / 2)\n      from + r1 + r1\n    } else {\n      from + nextDouble() * size\n    }\n    return if (r >= until) until.nextDown() else r\n  }\n\n /**\n  * Gets the next random [Float] value\n  uniformly distributed between 0 (inclusive) and 1 (exclusive).\n  *\n  * @sample\n  samples.random.Randoms.nextFloat\n  *\n  public open fun nextFloat(): Float = nextBits(24) / (1 shl\n  24).toFloat()\n\n /**\n  * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and\n  ending [toIndex] exclusive\n  * with random bytes.\n  *\n  * @return [array] with the subrange filled with\n  random bytes.\n  *\n  * @sample samples.random.Randoms.nextBytes\n  *\n  public open fun\n  nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n    require(fromIndex in 0..array.size && toIndex in 0..array.size) { "\"fromIndex ($fromIndex) or toIndex\n  ($toIndex) are out of range: 0..${array.size}.\"" }\n    require(fromIndex <= toIndex) { "\"fromIndex ($fromIndex)\n  must be not greater than toIndex ($toIndex).\"" }\n    val steps = (toIndex - fromIndex) / 4\n    var position =\n    fromIndex\n    repeat(steps) {\n      val v = nextInt()\n      array[position] = v.toByte()\n      array[position + 1] = v.ushr(8).toByte()\n      array[position + 2] = v.ushr(16).toByte()\n      array[position +\n      3] = v.ushr(24).toByte()\n      position += 4\n    }\n    val remainder = toIndex - position\n    val vr =\n    nextBits(remainder * 8)\n    for (i in 0 until remainder) {\n      array[position + i] = vr.ushr(i * 8).toByte()\n    }\n    return array\n  }\n\n /**\n  * Fills the specified byte [array] with random bytes and returns it.\n  *\n  * @return\n  * [array] filled with random bytes.\n  *\n  * @sample samples.random.Randoms.nextBytes\n  *\n  public open\n  fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n /**\n  * Creates a byte array of\n  the specified [size], filled with random bytes.\n  *\n  * @sample samples.random.Randoms.nextBytes\n  *\n  public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\n\n /**\n  * The default random\n  number generator.\n  *\n  * On JVM this generator is thread-safe, its methods can be invoked from multiple\n  threads.\n  *\n  * @sample samples.random.Randoms.defaultRandom\n  *\n  companion object Default :  
Random(), Serializable {\n    private val defaultRandom: Random = defaultPlatformRandom()\n    private  
object Serialized : Serializable {\n      private const val serialVersionUID = 0L\n      private fun  
readResolve(): Any = Random\n    }\n    private fun writeReplace():  
Any = Serialized\n  }\n  override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\n  override fun nextInt(): Int = defaultRandom.nextInt()\n  override fun nextInt(until: Int): Int =\n  defaultRandom.nextInt(until)\n  override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from,\n  until)\n  override fun nextLong(): Long = defaultRandom.nextLong()\n  override fun nextLong(until:  
Long): Long = defaultRandom.nextLong(until)\n  override fun nextLong(from: Long, until: Long): Long =

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defaultRandom.nextLong(from, until)\n\n    override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()\n\n    override fun nextDouble(): Double = defaultRandom.nextDouble()\n
override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n    override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n    override fun
nextFloat(): Float = defaultRandom.nextFloat()\n\n
    override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\n    override fun
nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\n    override fun nextBytes(array: ByteArray,
fromIndex: Int, toIndex: Int): ByteArray =\n        defaultRandom.nextBytes(array, fromIndex, toIndex)\n
}\n}\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\n * Two
generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *
**Note:** Future versions of Kotlin may change the algorithm of this seeded number generator so that it will
return\n * a sequence of values different from the current one for a given seed.\n * On JVM the returned
generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n *
@sample samples.random.Randoms.seededRandom\n * \n@SinceKotlin("1.3")\n\npublic fun
Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random
number generator seeded with the given [seed] `Long` value.\n * Two generators with the same seed produce the
same sequence of values within the same version of Kotlin runtime.\n *
**Note:** Future versions of Kotlin may change the algorithm of this seeded number generator so that it will
return\n * a sequence of values different from the current one for a given seed.\n * On JVM the returned
generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n *
@sample samples.random.Randoms.seededRandom\n * \n@SinceKotlin("1.3")\n\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified
[range].\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start`
inclusive to
`range.endInclusive` inclusive.\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.3")\n\npublic fun Random.nextInt(range: IntRange): Int = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)\n    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n
else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified
[range].\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from
`range.start` inclusive to `range.endInclusive` inclusive.\n * @throws IllegalArgumentException if [range] is
empty.\n * \n@SinceKotlin("1.3")\n\npublic fun Random.nextLong(range: LongRange): Long = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last <
Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n    else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\n\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n\ninternal fun fastLog2(value: Int): Int = 31 -
value.countLeadingZeroBits()\n\n\n/**\n * Takes upper [bitCount] bits (0..32) from this number. *\n\ninternal fun
Int.takeUpperBits(bitCount: Int): Int =\n    this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\n\ninternal fun
checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun
checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until)
}\n\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = "Random range is empty: [$from,
$until)."\n\n","/*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n@n\npackage kotlin.random\n\n\n/**\n *
Gets the next random [UInt] from the random number generator.\n * Generates a [UInt] random value uniformly
distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number
generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed
between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if
[until] is zero.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextInt(until: UInt): UInt = nextUInt(0u, until)\n\n/**\n
* Gets the next random [UInt] from the random number generator in the specified range.\n *\n * Generates a [UInt]
random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n *
@throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextInt(from: UInt, until: UInt): UInt {\n    checkUIntRangeBounds(from, until)\n\n    val signedFrom =
from.toInt() xor Int.MIN_VALUE\n    val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n    val signedResult =
nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n    return signedResult.toUInt()\n}\n\n/**\n * Gets the next
random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException
if [range] is empty.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
fun Random.nextInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < UInt.MAX_VALUE ->
nextInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n    else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *
Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive)
and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from
the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n    checkULongRangeBounds(from, until)\n\n    val
signedFrom = from.toLong() xor Long.MIN_VALUE\n    val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return
signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a
[ULong] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to
`range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < ULong.MAX_VALUE -
> nextULong(range.first, range.last + 1u)\n    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u,
range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes
and returns it.\n *\n * @return [array] filled with random bytes.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray):

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UByteArray

```
{\n  nextBytes(array.asByteArray())\n  return array}\n}\n\n/**\n * Creates an unsigned byte array of the specified\n [size], filled with random bytes.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\nRandom.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the\n specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random\n UBytes.\n */\n * @return [array] with the subrange filled with random bytes.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray,\nfromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n  nextBytes(array.asByteArray(), fromIndex,\ntoIndex)\n  return array}\n}\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >\nfrom) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) =\nrequire(until > from) { boundsErrorMessage(from, until)\n
```

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}\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this\n source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
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*\n\npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's "xorwow" algorithm\n */\n * Cycles after 2192 - 232 repetitions.\n */\n * For more details, see Marsaglia, George (July 2003). "Xorshift\n RNGs". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n */\n * Available at\n
```

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https://www.jstatsoft.org/v08/i14/paper\n\n\ninternal class XorWowRandom internal constructor(\n  private\n var x: Int,\n  private var y: Int,\n  private var z: Int,\n  private var w: Int,\n  private var v: Int,\n  private var\n addend: Int\n) : Random(), Serializable {\n  internal constructor(seed1: Int, seed2: Int) : this(seed1,\nseed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n  init {\n    require((x or y or\nz or w or v) != 0) { "Initial state must have at least one non-zero element." }\n\n    // some trivial seeds can\nproduce several values with zeroes in upper bits, so we discard first 64\n    repeat(64) { nextInt() }\n\n    override fun nextInt(): Int {\n      // Equivalent to the xorwow algorithm\n      // From Marsaglia, G. 2003. Xorshift\nRNGs. J. Statis. Soft. 8, 14, p. 5\n      var t = x\n      t = t xor (t ushr 2)\n      x = y\n      y = z\n      z = w\n      val v0 = v\n      w = v0\n      t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n      v = t\n      addend += 362437\n      return t + addend\n    }\n\n    override fun nextBits(bitCount: Int): Int =\nnextInt().takeUpperBits(bitCount)\n\n    private companion object {\n      private const val serialVersionUID: Long = 0L\n    }\n  }\n}\n", /*\n * Copyright\n 2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed\n  by the Apache 2.0\n
```

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license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT
```

```
EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n */\n * @property\n step the number by which the value is incremented on each step.\n */\n\ninternal class CharProgressionIterator(first:\nChar, last: Char, val step: Int) : CharIterator() {\n  private val finalElement: Int = last.code\n  private var hasNext:\nBoolean = if (step > 0) first <= last else first >= last\n  private var next: Int = if (hasNext) first.code else\nfinalElement\n\n  override fun hasNext(): Boolean = hasNext\n\n  override fun nextChar(): Char {\n    val value\n= next\n    if (value == finalElement) {\n      if (!hasNext) throw kotlin.NoSuchElementException()\n      hasNext = false\n    }\n    else {\n      next += step\n    }\n    return value.toChar()\n  }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n
```

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*\n * @property step the number by which the value is incremented on each step.\n */\n\ninternal class\nIntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n  private val finalElement: Int = last\nprivate var hasNext: Boolean = if (step > 0) first <= last else first >= last\n  private var next: Int = if (hasNext) first\nelse finalElement\n\n  override fun hasNext(): Boolean = hasNext\n\n  override fun nextInt(): Int {\n    val\nvalue = next\n    if (value == finalElement) {\n      if (!hasNext) throw kotlin.NoSuchElementException()\n      hasNext = false\n    }\n    else {\n      next += step\n    }\n    return value\n  }\n}\n\n/**\n * An\niterator over a progression of values of type `Long`.\n */\n * @property step the number by which the value is\nincremented on each step.\n */\n\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) :\nLongIterator() {\n  private val finalElement: Long = last\n
```

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private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Long = if (hasNext)
first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextLong(): Long {\n
val value = next\n if (value == finalElement) {\n if (!hasNext) throw
kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n
return value\n }\n}\n\n"/>\n\n * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class
CharProgression\n internal constructor\n (\n start: Char,\n endInclusive:
Char,\n step: Int\n ): Iterable<Char> {\n init {\n if (step == 0) throw
kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step == Int.MIN_VALUE) throw
kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to avoid overflow on negation.")\n
}\n\n /**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The
last element in the progression.\n */\n public val last: Char = getProgressionLastElement(start.code,
endInclusive.code, step).toChar()\n\n /**\n * The step of the progression.\n */\n public val step: Int =
step\n\n override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n /**\n * Checks if
the progression is empty.\n */\n * Progression with a positive step is empty if its first element is greater than the
last element.\n * Progression with a negative step is empty if its first
element is less than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else
first < last\n\n override fun equals(other: Any?): Boolean =\n other is CharProgression && (isEmpty() &&
other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun
hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.code + last.code) + step)\n\n override fun toString():
String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n companion object {\n
/**\n * Creates CharProgression within the specified bounds of a closed range.\n */\n * The
progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
specified [step].\n * In order to go backwards the [step] must be negative.\n */\n * [step] must be
greater than `Int.MIN_VALUE` and not equal
to zero.\n */\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression
= CharProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic
open class IntProgression\n internal constructor\n (\n start: Int,\n endInclusive: Int,\n step:
Int\n ): Iterable<Int> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Int.MIN_VALUE to avoid overflow on negation.")\n }\n\n /**\n * The first element in the progression.\n
*/\n */\n public val first: Int = start\n\n /**\n * The last element in the progression.\n */\n */\n public val last: Int =
getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n */\n public
val step: Int = step\n\n override fun iterator(): IntIterator = IntProgressionIterator(first, last, step)\n\n /**\n * Checks if the
progression is empty.\n */\n * Progression with a positive step is empty if its first element is greater than the last
element.\n * Progression with a negative step is empty if its first element is less than the last element.\n */\n
public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?):
Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last ==
other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first +
last) + step)\n\n override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last
step ${-step}"\n\n companion object {\n /**\n * Creates IntProgression within the specified bounds of a
closed range.\n */\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not
excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n */\n * [step]
must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun

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fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd,
step)\n }\n}\n\n/**\n * A progression of values of type `Long`. \n */\npublic open class LongProgression\ninternal constructor\n (\n      start: Long,\n      endInclusive: Long,\n      step: Long\n ) :
Iterable<Long> {\n      init {\n          if (step == 0L) throw kotlin.IllegalArgumentException("Step must be non-
zero.")\n          if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than
Long.MIN_VALUE to avoid overflow on negation.")\n      }\n      /**\n       * The first
element in the progression.\n       */\n      public val first: Long = start\n      /**\n       * The last element in the
progression.\n       */\n      public val last: Long = getProgressionLastElement(start, endInclusive, step)\n      /**\n       *
The step of the progression.\n       */\n      public val step: Long = step\n      override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n      /**\n       * Checks if the progression is empty.\n       */\n       *
Progression with a positive step is empty if its first element is greater than the last element.\n       * Progression with a
negative step is empty if its first element is less than the last element.\n       */\n      public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n      override fun equals(other: Any?): Boolean =\n          other is
LongProgression && (isEmpty() && other.isEmpty()) ||\n              first == other.first && last == other.last && step ==
other.step\n      override fun hashCode(): Int
=\n          if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr
32))).toInt()\n      override fun toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last
step ${-step}"\n      companion object {\n          /**\n           * Creates LongProgression within the specified bounds of
a closed range.\n           */\n           * The progression starts with the [rangeStart] value and goes toward the [rangeEnd]
value not excluding it, with the specified [step].\n           * In order to go backwards the [step] must be negative.\n
           */\n           * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n           */\n           public fun
fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart,
rangeEnd, step)\n      }\n}\n\n"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example, numbers or characters) where both the lower and upper bounds are
included in the range.\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\npublic interface
ClosedRange<T : Comparable<T>> {\n      /**\n       * The minimum value in the range.\n       */\n      public val start:
T\n      /**\n       * The maximum value in the range (inclusive).\n       */\n      public val endInclusive: T\n      /**\n       *
Checks whether the specified [value] belongs to the range.\n       */\n       * A value belongs to the closed range if it is
greater than or equal to the [start] bound and less than or equal to the [endInclusive] bound.\n       */\n      public
operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\n      /**\n       * Checks
whether the range is
empty.\n       */\n       * The range is empty if its start value is greater than the end value.\n       */\n      public fun
isEmpty(): Boolean = start > endInclusive\n}\n\n/**\n * Represents a range of values (for example, numbers or
characters) where the upper bound is not included in the range.\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic interface OpenEndRange<T
: Comparable<T>> {\n      /**\n       * The minimum value in the range.\n       */\n      public val start: T\n      /**\n       *
The maximum value in the range (exclusive).\n       */\n       * @throws IllegalStateException can be thrown if the
exclusive end bound cannot be represented\n       * with a value of type [T].\n       */\n      public val endExclusive: T\n      /**\n       * Checks whether the specified [value] belongs to the range.\n       */\n       * A value belongs to the open-
ended range
if it is greater than or equal to the [start] bound and strictly less than the [endExclusive] bound.\n       */\n      public
operator fun contains(value: T): Boolean = value >= start && value < endExclusive\n      /**\n       * Checks whether
the range is empty.\n       */\n       * The open-ended range is empty if its start value is greater than or equal to the end
value.\n       */\n      public fun isEmpty(): Boolean = start >= endExclusive\n}\n"/\n * Copyright 2010-2018 JetBrains

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```
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage\nkotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableRange<T : Comparable<T>>(\n    override val start: T,\n    override val endInclusive: T\n) : ClosedRange<T> {\n\n    override\n    fun equals(other: Any?): Boolean\n    {\n        return other is ComparableRange<*> && (isEmpty() && other.isEmpty()) ||\n            start == other.start && endInclusive == other.endInclusive\n    }\n\n    override fun hashCode(): Int {\n        return if (isEmpty()) -1\n        else 31 * start.hashCode() + endInclusive.hashCode()\n    }\n\n    override fun toString(): String =\n        \"$start..$endInclusive\"\n}\n\n/**\n * Creates a range from this [Comparable] value to the specified [that] value.\n */\n * This value needs to be smaller than or equal to [that] value, otherwise the returned range will be empty.\n */\n * @sample samples.ranges.Ranges.rangeFromComparable\n */\npublic operator fun <T : Comparable<T>>\nT.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableOpenEndRange<T : Comparable<T>>(\n    override val start: T,\n    override val endExclusive: T\n) : OpenEndRange<T> {\n\n    override fun equals(other: Any?): Boolean {\n        return other is ComparableOpenEndRange<*> && (isEmpty() && other.isEmpty()) ||\n            start ==\n            other.start && endExclusive == other.endExclusive\n    }\n\n    override fun hashCode(): Int {\n        return if\n        (isEmpty()) -1 else 31 * start.hashCode() + endExclusive.hashCode()\n    }\n\n    override fun toString(): String =\n        \"$start.<$endExclusive\"\n}\n\n/**\n * Creates an open-ended range from this [Comparable] value to the specified\n [that] value.\n */\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\n */\n * @sample samples.ranges.Ranges.rangeFromComparable\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic operator fun <T : Comparable<T>> T.rangeUntil(that: T): OpenEndRange<T> = ComparableOpenEndRange(this, that)\n\n/**\n * Represents a range of floating point numbers.\n */\n * Extends [ClosedRange] interface providing custom operation\n [lessThanOrEquals] for comparing values of range domain type.\n */\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo]\n operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n */\n\n@SinceKotlin("1.1")\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T>\n{\n    override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value,\n    endInclusive)\n    override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n}\n\n/**\n * Compares two values of range domain type and returns true if first is less than or equal to second.\n */\n * fun\n lessThanOrEquals(a: T, b: T): Boolean\n}\n\n/**\n * A closed range of values of type `Double`. Numbers\n * are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedDoubleRange(\n    start:\n    Double,\n    endInclusive: Double\n) : ClosedFloatingPointRange<Double> {\n    private val _start = start\n    private\n    val _endInclusive = endInclusive\n    override val start: Double get() = _start\n    override val endInclusive: Double\n    get() = _endInclusive\n    override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n    override\n    fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n    override fun isEmpty():\n    Boolean = !(_start <= _endInclusive)\n    override fun equals(other: Any?): Boolean {\n        return other is\n        ClosedDoubleRange && (isEmpty() && other.isEmpty()) ||\n            _start == other._start && _endInclusive ==\n            other._endInclusive\n    }\n\n    override fun hashCode(): Int {\n        return if (isEmpty()) -1 else 31 *\n        _start.hashCode() + _endInclusive.hashCode()\n    }\n\n    override fun toString(): String =\n        \"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n */\n * Numbers\n * are compared with the ends of this range according to IEEE-754.\n */\n * @sample\n samples.ranges.Ranges.rangeFromDouble\n */\n\n@SinceKotlin("1.1")\npublic operator fun Double.rangeTo(that: Double):\n    ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n/**\n * An open-ended range of values of\n type `Double`. Numbers\n * are compared with the ends of this range according to IEEE-754.\n */\nprivate class
```

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OpenEndDoubleRange(\n start: Double,\n endExclusive: Double\n) : OpenEndRange<Double> {\n private val
_start = start\n private val _endExclusive = endExclusive\n override val start: Double get() = _start\n override
val endExclusive: Double get() = _endExclusive\n\n private fun lessThanOrEquals(a: Double, b: Double):
Boolean = a <= b\n\n override fun contains(value: Double): Boolean = value >= _start && value <
_endExclusive\n\n override fun isEmpty(): Boolean = !(_start < _endExclusive)\n\n override fun equals(other:
Any?): Boolean {\n return other is OpenEndDoubleRange && (isEmpty() && other.isEmpty()) ||\n
_start ==
other._start && _endExclusive == other._endExclusive)\n } \n\n override fun hashCode(): Int {\n return if
(isEmpty()) -1 else 31 * _start.hashCode() + _endExclusive.hashCode()\n } \n\n override fun toString(): String =
\"$_start..$_endExclusive\"\n}\n\n/**\n * Creates an open-ended range from this [Double] value to the specified
[that] value.\n * \n * Numbers are compared with the ends of this range according to IEEE-754.\n
*\n *\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n public operator fun
Double.rangeUntil(that: Double): OpenEndRange<Double> = OpenEndDoubleRange(this, that)\n\n\n/**\n * A
closed range of values of type `Float`.\n * \n * Numbers are compared with the ends of this range according to IEEE-
754.\n *\n private class ClosedFloatRange(\n start: Float,\n endInclusive: Float\n) :
ClosedFloatingPointRange<Float> {\n private val _start = start\n private val _endInclusive = endInclusive\n
override val start: Float get()
= _start\n\n override val endInclusive: Float get() = _endInclusive\n\n override fun lessThanOrEquals(a: Float, b:
Float): Boolean = a <= b\n\n override fun contains(value: Float): Boolean = value >= _start && value <=
_endInclusive\n\n override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n override fun equals(other:
Any?): Boolean {\n return other is ClosedFloatRange && (isEmpty() && other.isEmpty()) ||\n
_start == other._start && _endInclusive == other._endInclusive)\n } \n\n override fun hashCode(): Int {\n return if
(isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n } \n\n override fun toString(): String =
\"$_start..$_endInclusive\"\n}\n\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n * \n *
Numbers are compared with the ends of this range according to IEEE-754.\n * \n @sample
samples.ranges.Ranges.rangeFromFloat\n *\n @SinceKotlin("1.1")\n public operator fun Float.rangeTo(that:
Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n\n\n/**\n * An open-ended range of
values of type `Float`.\n * \n * Numbers are compared with the ends of this range according to IEEE-754.\n
*\n *\n private class OpenEndFloatRange(\n start: Float,\n endExclusive: Float\n) : OpenEndRange<Float> {\n
private val _start = start\n private val _endExclusive = endExclusive\n\n override val start: Float get() = _start\n
override val endExclusive: Float get() = _endExclusive\n\n private fun lessThanOrEquals(a: Float, b: Float):
Boolean = a <= b\n\n override fun contains(value: Float): Boolean = value >= _start && value < _endExclusive\n
\n override fun isEmpty(): Boolean = !(_start < _endExclusive)\n\n override fun equals(other: Any?): Boolean {\n
return other is OpenEndFloatRange && (isEmpty() && other.isEmpty()) ||\n
_start == other._start &&
_endExclusive == other._endExclusive)\n } \n\n override fun hashCode(): Int
{\n return if (isEmpty()) -1 else 31 * _start.hashCode() + _endExclusive.hashCode()\n } \n\n override fun
toString(): String = \"$_start.<$_endExclusive\"\n}\n\n\n/**\n * Creates an open-ended range from this [Float] value
to the specified [that] value.\n * \n * Numbers are compared with the ends of this range according to IEEE-754.\n
*\n *\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n public operator fun
Float.rangeUntil(that: Float): OpenEndRange<Float> = OpenEndFloatRange(this, that)\n\n\n\n/**\n * Returns `true` if
this iterable range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\n *\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : ClosedRange<T>, R : Iterable<T> =\n element != null && contains(element)\n\n\n\n/**\n * Returns `true` if this iterable range contains the specified [element].\n * \n * Always returns `false`
if the [element] is `null`.\n
*\n *\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public
inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : OpenEndRange<T>, R :
Iterable<T> =\n element != null && contains(element)\n\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean,

```

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step: Number) {\n  if (!isPositive) throw IllegalArgumentException("Step must be positive, was:
$step.")\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("KClasses")\n@file:Suppress("UNCHECKED_CAST")\n\npackage
kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the
class represented by this [KClass] object.\n * Throws an exception if the value is `null` or if it is not an
instance of this class.\n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n  if (!isInstance(value)) throw ClassCastException("Value
cannot be cast to $qualifiedOrSimpleName")\n  return value as T\n}\n\n// TODO: replace with qualifiedName
when it is fully supported in K/JS\n\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n\n/**\n * Casts
the given [value] to the class represented by this [KClass] object.\n * Returns `null` if the value is `null` or if it is not
an instance of this class.\n * This is an experimental function that behaves as a similar function from
kotlin.reflect.full on JVM.\n * @see [KClass.isInstance]\n * @see [KClass.cast]\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun
<T : Any> KClass<T>.safeCast(value: Any?): T? {\n  return if (isInstance(value)) value as T else null\n}\n", "/*\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.reflect\n\nimport kotlin.jvm.JvmField\n\nimport kotlin.jvm.JvmStatic\n\n\n/**\n * Represents a type
projection. Type projection is usually the argument to another type in a type usage.\n * For example, in the type
`Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\n *
Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n *
See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n *
for more information.\n
*/\n\n@SinceKotlin("1.1")\n\npublic data class KTypeProjection constructor(\n  /**\n   * The use-site variance
specified in the projection, or `null` if this is a star projection.\n   */\n  public val variance: KVariance?,\n  /**\n
* The type specified in the projection, or `null` if this is a star projection.\n   */\n  public val type: KType?)\n
{\n\n  init {\n    require((variance == null) == (type == null)) {\n      if (variance == null)\n        "Star
projection must have no type specified.\n      " else\n        "The projection variance $variance requires type
to be specified.\n      " }\n\n    override fun toString(): String = when (variance) {\n      null -> "/*"\n
KVariance.INVARIANT -> type.toString()\n      KVariance.IN -> "in $type"\n      KVariance.OUT -> "out
$type"\n    }\n\n    public companion object {\n      // provided for compiler access\n      @JvmField\n
@PublishedApi\n
      internal val star: KTypeProjection = KTypeProjection(null, null)\n\n      /**\n       * Star projection, denoted by
the `*` character.\n       * For example, in the type `KClass<*>`, `*` is the star projection.\n       * See the [Kotlin
language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n       * for more
information.\n       */\n      public val STAR: KTypeProjection get() = star\n\n      /**\n       * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n       * without any use-site variance
modifiers applied to it.\n       * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n       */\n      @JvmStatic\n      public fun invariant(type: KType):
KTypeProjection =\n        KTypeProjection(KVariance.INVARIANT, type)\n\n      /**\n       * Creates a
contravariant projection of a given type, denoted
by the `in` modifier applied to a type.\n       * For example, in the type `MutableList<in Number>`, `in Number` is
a contravariant projection of the type of class `Number`.\n       */\n      @JvmStatic\n      public fun
contravariant(type: KType): KTypeProjection =\n        KTypeProjection(KVariance.IN, type)\n\n      /**\n       *
Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n       * For example,

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in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.
    @JvmStatic
    public fun covariant(type: KType): KTypeProjection =
KTypeProjection(KVariance.OUT, type)
}
}
"/
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Programming Language contributors.
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found in the license/LICENSE.txt file.
package kotlin.reflect
/**
 * Represents variance
applied to a type parameter on the declaration site (*declaration-site variance*),
or to a type in a projection
(*use-site variance*).
See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)
for more information.
@see [KTypeParameter.variance]
@see [KTypeProjection]
@SinceKotlin("1.1")
enum class KVariance
{
    /**
     * The affected type parameter or type is *invariant*, which means it has no variance applied to it.
     */
    INVARIANT,
    /**
     * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.
     */
    IN,
    /**
     * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.
     */
    OUT,
}
"/
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and Kotlin Programming Language contributors.
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that can be found
in the license/LICENSE.txt file.
package kotlin.reflect
/**
 * Returns a runtime representation of the
given reified type [T] as an instance of [KType].
Note that on JVM, the created type has no annotations
([KType.annotations] returns an empty list)
even if the type in the source code is annotated. Support for type
annotations might be added in a future version.
@SinceKotlin("1.6")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <reified T>
typeOf(): KType =
    throw UnsupportedOperationException("This function is implemented as an intrinsic on all
supported platforms.")
"/
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license/LICENSE.txt file.
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")
package
kotlin.text
/**
 * An object to which char sequences and
values can be appended.
next interface Appendable {
    /**
     * Appends the specified character [value]
to this Appendable and returns this instance.
     */
    fun append(value: Char): Appendable
    /**
     * Appends the specified character sequence [value] to this
Appendable and returns this instance.
     */
    fun append(value: CharSequence): Appendable
    /**
     * Appends a subsequence of the specified character sequence [value] to
this Appendable and returns this instance.
     */
    fun append(value: CharSequence?,
startIndex: Int,
endIndex: Int): Appendable
}
/**
 * Appends a subsequence of the specified character
sequence [value] to this Appendable and returns this instance.
     */
    fun append(value: CharSequence?,
startIndex: Int,
endIndex: Int): Appendable
}
/**
 * Appends a subsequence of the specified character
sequence [value] to this Appendable and returns this instance.
     */
    fun append(value: CharSequence?,
startIndex: Int,
endIndex: Int): Appendable
}
/**
 * Appends a subsequence of the specified character
sequence [value] to this Appendable and returns this instance.
     */
    fun append(value: CharSequence?,
startIndex: Int,
endIndex: Int): Appendable
}
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public
fun <T : Appendable> T.appendRange(value: CharSequence,
startIndex: Int,
endIndex: Int): T {
    @Suppress("UNCHECKED_CAST")
    return append(value, startIndex, endIndex) as T
}
/**
 * Appends
all arguments to the given [Appendable].
public fun <T : Appendable> T.append(vararg value:

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CharSequence?): T {\n  for (item in value)\n    append(item)\n  return this}\n\n/** Appends a line feed
character (`\n`) to this Appendable. */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(): Appendable = append("\n")\n\n/** Appends value to the given Appendable and a line
feed character (`\n`) after it. */\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/** Appends value
to the given Appendable and a line feed character (`\n`) after it.
*/\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline
fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\ninternal fun <T>
Appendable.appendElement(element: T, transform: ((T) -> CharSequence?) {\n  when {\n    transform != null -
-> append(transform(element))\n    element is CharSequence? -> append(element)\n    element is Char ->
append(element)\n    else -> append(element.toString())\n  }\n}\n", "/**\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport
kotlin.internal.InlineOnly\n\n/**\n * Represents hexadecimal format options.\n * *\n * To create a new [HexFormat]
use `HexFormat` function.\n */\n@ExperimentalStdlibApi\n@SinceKotlin("1.9")\npublic class HexFormat internal
constructor(\n    /**\n     * Specifies whether upper case hexadecimal digits `0-9`, `A-F` should be used for
formatting.\n     *\n     * If `false`, lower case hexadecimal digits `0-9`, `a-f` will be used.\n     *\n     * Affects both `ByteArray` and
numeric value formatting.\n     *\n     * val upperCase: Boolean,\n     */\n    /**\n     * Specifies hexadecimal format used for
formatting and parsing `ByteArray`.\n     *\n     * val bytes: BytesHexFormat,\n     */\n    /**\n     * Specifies hexadecimal
format used for formatting and parsing a numeric value.\n     *\n     * val number: NumberHexFormat\n    ) {\n\n    override fun toString(): String = buildString {\n      append("`HexFormat(").appendLine()\n      append("`
upperCase = ").append(upperCase).appendLine("`,"")\n      append("` bytes =
BytesHexFormat(").appendLine()\n      bytes.appendOptionsTo(this, indent = "`  ")\n      appendLine()\n      append("` ),").appendLine()\n      append("` number = NumberHexFormat(").appendLine()\n      number.appendOptionsTo(this, indent = "`  ")\n      appendLine()\n      append("` )").appendLine()\n    }\n\n    /**\n     * Represents hexadecimal format options for formatting and parsing `ByteArray`.\n     *\n     * When formatting one can assume that bytes are firstly separated using LF character (`\n`) into lines\n     * with
[bytesPerLine] bytes in each line. The last line may have fewer bytes.\n     * Then each line is separated into groups
using [groupSeparator] with [bytesPerGroup] bytes in each group,\n     * except the last group in the line, which may
have fewer bytes.\n     * All bytes in a group are separated using [byteSeparator].\n     * Each byte is converted to its
two-digit hexadecimal representation,\n     * immediately preceded by [bytePrefix] and immediately succeeded by
[byteSuffix].\n     *\n     * When parsing the input string is required to be in the format described above.\n     *\n     * However, any of the char sequences CRLF, LF and CR is considered a valid line separator,\n     * and parsing is
performed in case-insensitive manner.\n     *\n     * See
[BytesHexFormat.Builder] to find out how the options are configured,\n     * and what is the default value of each
option.\n     *\n     * public class BytesHexFormat internal constructor(\n     */\n     /**\n      * The maximum number of bytes per
line. *\n      * val bytesPerLine: Int,\n     */\n     /**\n      * The maximum number of bytes per group. *\n      * val
bytesPerGroup: Int,\n     */\n     /**\n      * The string used to separate adjacent groups in a line. *\n      * val groupSeparator:
String,\n     */\n     /**\n      * The string used to separate adjacent bytes in a group. *\n      * val byteSeparator: String,\n     */\n     /**\n      * The string that immediately precedes two-digit hexadecimal representation of each byte. *\n      * val bytePrefix:
String,\n     */\n     /**\n      * The string that immediately succeeds two-digit hexadecimal representation of each byte. *\n      * val
byteSuffix: String\n    ) {\n\n    override fun toString(): String = buildString {\n      append("`BytesHexFormat(").appendLine()\n      appendOptionsTo(this,
indent = "`  ")\n      appendLine()\n      append("`")\n    }\n\n    internal fun appendOptionsTo(sb:
StringBuilder, indent: String): StringBuilder {\n      sb.append(indent).append("`bytesPerLine =
`).append(bytesPerLine).appendLine("`,"")\n      sb.append(indent).append("`bytesPerGroup =

```

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    ").append(bytesPerGroup).appendLine(",")\n        sb.append(indent).append("groupSeparator =
    \\\"").append(groupSeparator).appendLine("\\\"")\n        sb.append(indent).append("byteSeparator =
    \\\"").append(byteSeparator).appendLine("\\\"")\n        sb.append(indent).append("bytePrefix =
    \\\"").append(bytePrefix).appendLine("\\\"")\n        sb.append(indent).append("byteSuffix =
    \\\"").append(byteSuffix).appendLine("\\\"")\n        return sb\n    }\n    /**\n     * A context for building a
    [BytesHexFormat]. Provides API for configuring format options.\n     *\n     class Builder internal constructor()
    {\n
        /**\n         * Defines [BytesHexFormat.bytesPerLine] of the format being built, [Int.MAX_VALUE] by
        default.\n         *\n         * The value must be positive.\n         *\n         * @throws
        IllegalArgumentException if a non-positive value is assigned to this property.\n         *\n         var bytesPerLine:
        Int = Default.bytesPerLine\n         set(value) {\n             if (value <= 0)\n                 throw
        IllegalArgumentException("Non-positive values are prohibited for bytesPerLine, but was $value")\n         }\n
        field = value\n        /**\n         * Defines [BytesHexFormat.bytesPerGroup] of the format being
        built, [Int.MAX_VALUE] by default.\n         *\n         * The value must be positive.\n         *\n         *
        @throws IllegalArgumentException if a non-positive value is assigned to this property.\n         *\n         var
        bytesPerGroup: Int = Default.bytesPerGroup\n         set(value) {\n             if (value <= 0)\n                 throw
        IllegalArgumentException("Non-positive values are prohibited for bytesPerGroup, but was $value")\n         }\n
        field = value\n        /**\n         * Defines
        [BytesHexFormat.groupSeparator] of the format being built, two space characters (` `) by default. *\n         *\n
        var groupSeparator: String = Default.groupSeparator\n        /**\n         * Defines
        [BytesHexFormat.byteSeparator] of the format being built, empty string by default.\n         *\n         * The string
        must not contain LF and CR characters.\n         *\n         * @throws IllegalArgumentException if a string
        containing LF or CR character is assigned to this property.\n         *\n         var byteSeparator: String =
        Default.byteSeparator\n         set(value) {\n             if (value.contains("\n") || value.contains("\r"))\n
                 throw IllegalArgumentException("LF and CR characters are prohibited in byteSeparator, but was
        $value")\n         }\n         field = value\n        /**\n         * Defines [BytesHexFormat.bytePrefix] of
        the format being built, empty string by default.\n         *\n         * The string must not contain LF and CR
        characters.\n         *\n         * @throws IllegalArgumentException if a string containing LF or CR character is
        assigned to this property.\n         *\n         var bytePrefix: String = Default.bytePrefix\n         set(value) {\n
             if (value.contains("\n") || value.contains("\r"))\n                 throw
        IllegalArgumentException("LF and CR characters are prohibited in bytePrefix, but was $value")\n         }\n
        field = value\n        /**\n         * Defines [BytesHexFormat.byteSuffix] of the format being built, empty string by
        default.\n         *\n         * The string must not contain LF and CR characters.\n         *\n         * @throws
        IllegalArgumentException if a string containing LF or CR character is assigned to this property.\n         *\n
        var byteSuffix: String = Default.byteSuffix\n         set(value) {\n             if (value.contains("\n") ||
        value.contains("\r"))\n                 throw
        IllegalArgumentException("LF and CR characters are prohibited in byteSuffix, but was $value")\n         }\n
        field = value\n        }\n        internal fun build():
        BytesHexFormat {\n            return BytesHexFormat(bytesPerLine, bytesPerGroup, groupSeparator,
        byteSeparator, bytePrefix, byteSuffix)\n        }\n        internal companion object {\n            internal val
        Default = BytesHexFormat(\n                bytesPerLine = Int.MAX_VALUE,\n                bytesPerGroup =
        Int.MAX_VALUE,\n                groupSeparator = "
        ",\n                byteSeparator = "\",\n                bytePrefix = "\",\n                byteSuffix = "\n
        ")\n        }\n        /**\n         * Represents hexadecimal format options for formatting and parsing a numeric
        value.\n         *\n         * The formatting result consist of [prefix] string, hexadecimal representation of
        the value being formatted, and [suffix] string.\n         * Hexadecimal representation of a value is
        calculated by mapping each four-bit chunk\n         * of its binary representation to the corresponding
        hexadecimal digit, starting with the most significant bits.\n         * [upperCase]
        determines whether upper case `0-9`, `A-F` or lower case `0-9`, `a-f` hexadecimal digits are used.\n         *
        If [removeLeadingZeros] it `true`, leading zeros in the hexadecimal representation are removed.\n         *\n
        * For
    
```

example, the binary representation of the `Byte` value `58` is the 8-bit long `00111010`, which converts to a hexadecimal representation of `3a` or `3A` depending on [upperCase]. Whereas, the binary representation of the `Int` value `58` is the 32-bit long `000000000000000000000000111010`, which converts to a hexadecimal representation of `0000003a` or `0000003A` depending on [upperCase]. If [removeLeadingZeros] is `true`, leading zeros in `0000003a` are removed, resulting in `3a`. To convert a value to hexadecimal string of a particular length, first convert the value to a type with the corresponding bit size. For example, to convert an `Int` value to 4-digit hexadecimal string, convert the value to `toShort()` before hexadecimal formatting. To convert it to hexadecimal string of at most 4 digits without leading zeros, set [removeLeadingZeros] to `true` in addition. Parsing requires [prefix] and [suffix] to be present in the input string and the amount of hexadecimal digits to be at least one and at most the value bit size divided by four. Parsing is performed in case-insensitive manner, and [removeLeadingZeros] is ignored as well. See [NumberHexFormat.Builder] to find out how the options are configured and what is the default value of each option.

```

public class NumberHexFormat internal constructor(
    /** The string that immediately precedes hexadecimal representation of a numeric value. */
    val prefix: String,
    /** The string that immediately succeeds hexadecimal representation of a numeric value. */
    val suffix: String,
    /** Specifies whether to remove leading zeros in the hexadecimal representation of a numeric value. */
    val removeLeadingZeros: Boolean) {
    override fun toString(): String = buildString {
        append("NumberHexFormat(").appendLine().appendOptionsTo(this, indent = " ").appendLine().append(")")
    }
    internal fun appendOptionsTo(sb: StringBuilder, indent: String): StringBuilder {
        sb.append(indent).append("prefix = ").append(prefix).appendLine().append(indent).append("suffix = ").append(suffix).appendLine().append(indent).append("removeLeadingZeros = ").append(removeLeadingZeros)
        return sb
    }
    /** A context for building a [NumberHexFormat]. Provides API for configuring format options. */
    class Builder internal constructor() {
        /** Defines [NumberHexFormat.prefix] of the format being built, empty string by default. */
        var prefix: String = Default.prefix
        set(value) {
            if (value.contains("\n") || value.contains("\r"))
                throw IllegalArgumentException("LF and CR characters are prohibited in prefix, but was $value")
            field = value
        }
        /** Defines [NumberHexFormat.suffix] of the format being built, empty string by default. */
        var suffix: String = Default.suffix
        set(value) {
            if (value.contains("\n") || value.contains("\r"))
                throw IllegalArgumentException("LF and CR characters are prohibited in suffix, but was $value")
            field = value
        }
        /** Defines [NumberHexFormat.removeLeadingZeros] of the format being built, empty string by default. */
        var removeLeadingZeros: Boolean = Default.removeLeadingZeros
        internal fun build(): NumberHexFormat {
            return NumberHexFormat(prefix, suffix, removeLeadingZeros)
        }
        internal companion object {
            internal val Default = NumberHexFormat(
                prefix = "",
                suffix = "",
                removeLeadingZeros = false
            )
        }
        /** A context for building a [HexFormat]. Provides API for configuring format options. */
        public class Builder @PublishedApi internal constructor() {
            /** Defines [HexFormat.upperCase] of the format being built, `false` by default. */
            var upperCase: Boolean = Default.upperCase
            /** Defines [HexFormat.bytes] of the format being built. See [BytesHexFormat.Builder] for default values of the options. */
            val bytes: BytesHexFormat.Builder
            get() {
                if (_bytes == null)
                    _bytes = BytesHexFormat.Builder()
                return _bytes!!
            }
            private var _bytes:

```

```

BytesHexFormat.Builder? = null\n\n    /**\n    * Defines [HexFormat.number] of the format being built.\n    *\n    * See [NumberHexFormat.Builder] for default values of the options.\n    */\n    val number:
NumberHexFormat.Builder\n    get() {\n        if (_number == null) {\n            _number =
NumberHexFormat.Builder()\n        }\n        return _number!!\n    }\n    private var _number:
NumberHexFormat.Builder? = null\n\n    /**\n    * Provides a scope for configuring the [HexFormat.bytes]
format options.\n    *\n    * See [BytesHexFormat.Builder] for default values of the options.\n    */\n    @InlineOnly\n    inline
    fun bytes(builderAction: BytesHexFormat.Builder.() -> Unit) {\n        bytes.builderAction()\n    }\n\n    /**\n    * Provides a scope for configuring the [HexFormat.number] format options.\n    *\n    * See
[NumberHexFormat.Builder] for default values of the options.\n    */\n    @InlineOnly\n    inline fun
number(builderAction: NumberHexFormat.Builder.() -> Unit) {\n        number.builderAction()\n    }\n\n    @PublishedApi\n    internal fun build(): HexFormat {\n        return HexFormat(\n            upperCase,\n            _bytes?.build() ?: BytesHexFormat.Default,\n            _number?.build() ?: NumberHexFormat.Default\n        )\n    }\n\n    companion object {\n        /**\n        * The default hexadecimal format options.\n        *\n        * Uses lower case hexadecimal digits `0-9`, `a-f` when formatting\n        * both `ByteArray` and numeric values.
That is [upperCase] is `false`.\n        *\n        * No line separator, group separator, byte separator, byte prefix or byte suffix is used\n        * when
formatting or parsing `ByteArray`. That is:\n        * * [BytesHexFormat.bytesPerLine] is `Int.MAX_VALUE`.\n        * * [BytesHexFormat.bytesPerGroup] is `Int.MAX_VALUE`.\n        * * [BytesHexFormat.byteSeparator],
[BytesHexFormat.bytePrefix] and [BytesHexFormat.byteSuffix] are empty strings.\n        *\n        * No prefix or
suffix is used, and no leading zeros in hexadecimal representation are removed\n        * when formatting or parsing
a numeric value. That is:\n        * * [NumberHexFormat.prefix] and [NumberHexFormat.suffix] are empty
strings.\n        * * [NumberHexFormat.removeLeadingZeros] is `false`.\n        */\n        public val Default:
HexFormat = HexFormat(\n            upperCase = false,\n            bytes = BytesHexFormat.Default,\n            number =
NumberHexFormat.Default,\n        )\n\n        /**\n        * Uses upper
case hexadecimal digits `0-9`, `A-F` when formatting\n        * both `ByteArray` and numeric values. That is
[upperCase] is `true`.\n        *\n        * The same as [Default] format in other aspects.\n        */\n        public val
UpperCase: HexFormat = HexFormat(\n            upperCase = true,\n            bytes = BytesHexFormat.Default,\n            number = NumberHexFormat.Default,\n        )\n    }\n\n    /**\n    * Builds a new [HexFormat] by configuring its
format options using the specified [builderAction],\n    * and returns the resulting format.\n    *\n    * The builder passed
as a receiver to the [builderAction] is valid only inside that function.\n    * Using it outside of the function produces an
unspecified behavior.\n    */\n    @ExperimentalStdlibApi\n    @SinceKotlin("1.9")\n    @InlineOnly\n    public inline fun
HexFormat(builderAction: HexFormat.Builder.() -> Unit): HexFormat {\n        return
HexFormat.Builder().apply(builderAction).build()\n    }\n\n    /**\n    * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n    * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n    */\n\n    @file:kotlin.jvm.JvmMultifileClass\n    @file:kotlin.jvm.JvmName("StringsKt")\n\n    package
kotlin.text\n\n    /**\n    * Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes\n    * the first and the last lines if they are blank (notice difference blank vs empty).\n    *\n    * Doesn't
affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n    *\n    * Doesn't preserve the
original line endings.\n    *\n    * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is
`|` (pipe character).\n    *\n    * @sample samples.text.Strings.trimMargin\n    * @see trimIndent\n    * @see
kotlin.text.isWhitespace\n    */\n    @kotlin.internal.IntrinsicConstEvaluation\n    public fun
String.trimMargin(marginPrefix: String = "|"): String =\n        replaceIndentByMargin("|",
marginPrefix)\n\n    /**\n    * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with
[newIndent].\n    *\n    * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe
character).\n    */\n    public fun String.replaceIndentByMargin(newIndent: String = "|", marginPrefix: String = "|"):\n    String {\n        require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n        val lines =

```



```
lines()\n\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\n        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n                line.startsWith(marginPrefix, firstNonWhitespaceIndex) ->\n                line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n                    else -> null\n            }\n        })\n    }\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and\n * also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n * Note that blank lines do not affect the detected indent level.\n * In case if there are non-blank lines with no leading\n * whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change\n * the indentation.\n * Doesn't preserve the original line endings.\n * @sample\n * samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\n@kotlin.internal.IntrinsicConstEvaluation\npublic fun String.trimIndent(): String = replaceIndent("\\")\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String = "\\"): String {\n    val lines = lines()\n    val\n    minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n        .minOrNull() ?: 0\n    return lines.reindent(length\n        + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent\n        )}\n    })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n * Doesn't preserve the original line\n * endings.\n */\npublic fun String.prependIndent(indent: String = " "): String =\n    lineSequence()\n        .map {\n            when {\n                it.isBlank() -> {\n                    when {\n                        it.length < indent.length -> indent\n                            else -> it\n                    }\n                }\n            }\n        }\n        .joinToString("\n")\n\nprivate fun String.indentWidth(): Int =\n    indexOfFirst { !it.isWhitespace() }\n    .let { if (it == -1)\n        length else it }\n\nprivate fun getIndentFunction(indent: String) =\n    when {\n        indent.isEmpty() -> { line: String ->\n            line }\n        else -> { line: String ->\n            indent + line }\n    }\n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate:\n    Int,\n    indentAddFunction: (String) -> String,\n    indentCutFunction: (String) -> String?): String {\n    val\n    lastIndex = lastIndex\n    return mapIndexedNotNull { index, value ->\n        if ((index == 0 || index == lastIndex)\n            && value.isBlank())\n            null\n        else\n            indentCutFunction(value)?.let(indentAddFunction) ?: value\n    }\n    .joinTo(StringBuilder(resultSizeEstimate), "\\n")\n    .toString()\n}\n\n/**\n * Copyright 2010-2018\n * JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n * Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n/**\n * Defines\n * names for Unicode symbols used in proper Typography.\n */\npublic object Typography {\n    /**\n     * The character\n     * &#x22; \u2013 quotation mark\n     */\n    public const val quote: Char = "\u0022"\n    /**\n     * The character\n     * &#x24; \u2013 dollar sign\n     */\n    public const val dollar: Char = "\u0024"\n    /**\n     * The character\n     * &#x26; \u2013 ampersand\n     */\n    public const val amp: Char = "\u0026"\n    /**\n     * The character\n     * &#x3C; \u2013 less-than sign\n     */\n    public const val less: Char = "\u003C"\n    /**\n     * The character\n     * &#x3E; \u2013 greater-than sign\n     */\n    public const val greater: Char = "\u003E"\n    /**\n     * The non-breaking space character\n     */\n    public const val nbsp: Char = "\u00A0"\n    /**\n     * The character\n     * &#xD7; *\n     */\n    public const val times: Char =\n    "\u00D7"\n    /**\n     * The character\n     * &#xA2; *\n     */\n    public const val cent: Char = "\u00A2"\n    /**\n     * The character\n     * &#xA3; *\n     */\n    public const val pound: Char = "\u00A3"\n    /**\n     * The character\n     * &#xA7; *\n     */\n    public const val section: Char =\n    "\u00A7"\n    /**\n     * The character\n     * &#xA9; *\n     */\n    public const val copyright: Char = "\u00A9"\n    /**\n     * The character\n     * &#xAB; *\n     */\n    @SinceKotlin("1.6")\n    public const val leftGuillemet: Char = "\u00AB"\n    /**\n     * The character\n     * &#xBB; *\n     */\n    @SinceKotlin("1.6")\n    public const val rightGuillemet:\n    Char = "\u00BB"\n    /**\n     * The character\n     * &#xAE; *\n     */\n    public const val registered: Char = "\u00AE"\n    /**\n     * The\n     * character\n     * &#xB0; *\n     */\n    public const val degree: Char = "\u00B0"\n    /**\n     * The character\n     * &#xB1; *\n     */\n    public const\n    val plusMinus: Char = "\u00B1"\n    /**\n     * The character\n     * &#xB6; *\n     */\n    public const\n    val paragraph: Char = "\u00B6"\n    /**\n     * The character\n     * &#xB7; *\n     */\n    public const\n    val middleDot: Char = "\u00B7"\n    /**\n     * The character\n     * &#xBD; *\n     */\n    public const\n    val half: Char = "\u00BD"\n    /**\n     * The character\n     * &#x2013; *\n     */\n    public const\n    val ndash: Char =\n    "\u2013"\n    /**\n     * The character\n     * &#x2014; *\n     */\n    public const\n    val mdash: Char =\n    "\u2014"\n    /**\n     * The character\n     * &#x2015; *\n     */\n    public const\n    val hline: Char =\n    "\u2015"\n}
```

```

&#x2018; *^n public const val leftSingleQuote: Char = "\u2018"n /** The character &#x2019; *^n public
const val rightSingleQuote: Char = "\u2019"n /** The character &#x201A; *^n public const val
lowSingleQuote: Char = "\u201A"n /** The character &#x201C; *^n public const val
leftDoubleQuote: Char = "\u201C"n /** The character &#x201D; *^n public const val rightDoubleQuote: Char
= "\u201D"n /** The character &#x201E; *^n public const val lowDoubleQuote: Char = "\u201E"n /** The
character &#x2020; *^n public const val dagger: Char = "\u2020"n /** The character &#x2021; *^n public
const val doubleDagger: Char = "\u2021"n /** The character &#x2022; *^n public const val bullet: Char =
"\u2022"n /** The character &#x2026; *^n public const val ellipsis: Char = "\u2026"n /** The character
&#x2032; *^n public const val prime: Char = "\u2032"n /** The character &#x2033; *^n public const val
doublePrime: Char = "\u2033"n /** The character &#x20AC; *^n public const val euro: Char = "\u20AC"n
/** The character &#x2122; *^n public const val tm: Char = "\u2122"n /** The character &#x2248; *^n
public const val almostEqual: Char = "\u2248"n /** The character &#x2260;
*^n public const val notEqual: Char = "\u2260"n /** The character &#x2264; *^n public const val
lessOrEqual: Char = "\u2264"n /** The character &#x2265; *^n public const val greaterOrEqual: Char =
"\u2265"n /** The character &#xAB; *^n @Deprecated("This constant has a typo in the name. Use
leftGuillemet instead.", ReplaceWith("Typography.leftGuillemet"))n @DeprecatedSinceKotlin("1.6")n
public const val leftGuillemete: Char = "\u00AB"n /** The character &#xBB; *^n @Deprecated("This
constant has a typo in the name. Use rightGuillemet instead.", ReplaceWith("Typography.rightGuillemet"))n
@DeprecatedSinceKotlin("1.6")n public const val rightGuillemete: Char = "\u00BB"n }"/ * Copyright
2010-2023 JetBrains s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.n *^n\npackage kotlin.text\nimport
kotlin.internal.InlineOnly\n\n
----- format and parse UByteArray -----\n/**n * Formats bytes in this array
using the specified [format].n *n * Note that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat]
affect formatting.n *n * @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default.n
*n * @throws IllegalArgumentException if the result length is more than [String] maximum capacity.n
*n *^n @ExperimentalStdlibApi\n@SinceKotlin("1.9")\n@ExperimentalUnsignedTypes\n@InlineOnly\npublic inline
fun UByteArray.toHexString(format: HexFormat = HexFormat.Default): String =
storage.toHexString(format)\n\n/**n * Formats bytes in this array using the specified [HexFormat].n *n * Note
that only [HexFormat.upperCase] and [HexFormat.BytesHexFormat] affect formatting.n *n * @param startIndex
the beginning (inclusive) of the subrange to format, 0 by default.n * @param endIndex the end (exclusive) of the
subrange to
format, size of this array by default.n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.n *n * @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is
out of range of this array indices.n * @throws IllegalArgumentException when `startIndex > endIndex`.n *
@throws IllegalArgumentException if the result length is more than [String] maximum capacity.n
*n *^n @ExperimentalStdlibApi\n@SinceKotlin("1.9")\n@ExperimentalUnsignedTypes\n@InlineOnly\npublic inline
fun UByteArray.toHexString(\n startIndex: Int = 0,\n endIndex: Int = size,\n format: HexFormat =
HexFormat.Default\n): String = storage.toHexString(startIndex, endIndex, format)\n\n/**n * Parses bytes from this
string using the specified [HexFormat].n *n * Note that only [HexFormat.BytesHexFormat] affects parsing,n *
and parsing is performed in case-insensitive manner.n * Also, any of the char sequences CRLF, LF and CR is
considered a valid line separator.n *n * @param
format the [HexFormat] to use for parsing, [HexFormat.Default] by default.n *n * @throws
IllegalArgumentException if this string does not comply with the specified [format].\n
*n *^n @ExperimentalStdlibApi\n@SinceKotlin("1.9")\n@ExperimentalUnsignedTypes\n@InlineOnly\npublic inline
fun String.toHexString(format: HexFormat = HexFormat.Default): UByteArray =\n
hexToByteArray(format).asUByteArray()\n\n/**n * Parses bytes from this string using the specified
[HexFormat].n *n * Note that only [HexFormat.BytesHexFormat] affects parsing,n * and parsing is

```

performed in case-insensitive manner.\n// \* Also, any of the char sequences CRLF, LF and CR is considered a valid line separator.\n// \* \n// \* @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n// \* @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n// \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n//

\*\n// \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n// \* @throws IllegalArgumentException when `startIndex > endIndex`.\n// \* @throws IllegalArgumentException if the substring does not comply with the specified [format].\n//

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @ExperimentalUnsignedTypes\n// @InlineOnly\n// public inline fun String.hexToByteArray(\n// startIndex: Int = 0,\n// endIndex: Int = length,\n// format: HexFormat = HexFormat.Default\n//): ByteArray = hexToByteArray(startIndex, endIndex, format).asByteArray()\n// -----  
----- format and parse UByte ----- \n\n\*\*\n \* Formats this `UByte` value using the specified [format].\n \* \n \* Note that only [HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n \* \n \* @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default.\n

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @InlineOnly\n// public inline fun UByte.toHexString(format: HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n\*\*\n \* Parses an `UByte` value from this string using the specified [format].\n \* \n \* Note that only [HexFormat.NumberHexFormat] affects parsing,\n \* and parsing is performed in case-insensitive manner.\n \* \n \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n \* \n \* @throws IllegalArgumentException if this string does not comply with the specified [format].\n

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @InlineOnly\n// public inline fun String.hexToUByte(format: HexFormat = HexFormat.Default): UByte = hexToByte(format).toUByte()\n\n\*\*\n// \* Parses an `UByte` value from this string using the specified [format].\n// \* \n// \* Note that only [HexFormat.NumberHexFormat] affects parsing,\n// \* and parsing is performed in case-insensitive manner.\n// \* \n// \* @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n// \* @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n// \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n// \* \n// \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n// \* @throws IllegalArgumentException when `startIndex > endIndex`.\n// \* @throws IllegalArgumentException if the substring does not comply with the specified [format].\n//

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @InlineOnly\n// public inline fun String.hexToUByte(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UByte = \n// hexToByte(startIndex, endIndex, format).toUByte()\n// -----  
----- format and parse UShort ----- \n\n\*\*\n \* Formats this `UShort` value using the specified [format].\n \* \n \* Note that only [HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n \* \n \* @param format the [HexFormat] to use for formatting, [HexFormat.Default] by default.\n

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @InlineOnly\n// public inline fun UShort.toHexString(format: HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n\*\*\n \* Parses an `UShort` value from this string using the specified [format].\n \* \n \* Note that only [HexFormat.NumberHexFormat] affects parsing,\n \* and parsing is performed in case-insensitive manner.\n \* \n \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n \* \n \* @throws IllegalArgumentException if this string does not comply with the specified [format].\n

\*\n// @ExperimentalStdlibApi\n// @SinceKotlin("1.9")\n// @InlineOnly\n// public inline fun String.hexToUShort(format: HexFormat = HexFormat.Default): UShort = hexToShort(format).toUShort()\n\n\*\*\n// \* Parses an `UShort` value from this string using the specified [format].\n// \* \n// \* Note that only [HexFormat.NumberHexFormat] affects parsing,\n// \* and parsing is performed in case-insensitive manner.\n// \* \n// \* @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n// \* @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n// \* @param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n// \* \n// \* @throws IndexOutOfBoundsException when [startIndex] or [endIndex]

```

is out of range of this string indices.\n// * @throws IllegalArgumentException when `startIndex > endIndex`.\n// *
@throws IllegalArgumentException if the substring does not comply with the specified [format].\n//
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public inline fun
String.hexToUShort(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UShort
=\n//  hexToShort(startIndex, endIndex, format).toUShort()\n\n// ----- format and parse UInt -----
-----\n\n/**\n
* Formats this `UInt` value using the specified [format].\n * Note that only [HexFormat.upperCase] and
[HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the [HexFormat] to use for formatting,
[HexFormat.Default] by default.\n *\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic
inline fun UInt.toHexString(format: HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n/**\n
* Parses an `UInt` value from this string using the specified [format].\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n * and parsing is performed in case-insensitive manner.\n *\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IllegalArgumentException if this string does not comply with the specified [format].\n
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic inline fun String.hexToUInt(format:
HexFormat = HexFormat.Default): UInt = hexToInt(format).toUInt()\n\n/**\n
* Parses an `UInt` value from this string using the specified [format].\n// * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n// * and parsing is performed in case-insensitive manner.\n// *
*\n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by default.\n// * @param endIndex the
end (exclusive) of the substring to parse, length of this string by default.\n// * @param format the [HexFormat] to
use for parsing, [HexFormat.Default] by default.\n// * @throws IndexOutOfBoundsException when
[startIndex] or [endIndex] is out of range of this string indices.\n// * @throws IllegalArgumentException when
`startIndex > endIndex`.\n// * @throws IllegalArgumentException if the substring does not comply with the
specified [format].\n// *
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public inline fun
String.hexToUInt(startIndex: Int = 0, endIndex: Int = length, format: HexFormat = HexFormat.Default): UInt
=\n//  hexToInt(startIndex, endIndex, format).toUInt()\n\n// ----- format and parse ULong -----
-----\n\n/**\n
* Formats this `ULong` value using the specified [format].\n *\n * Note that only
[HexFormat.upperCase] and [HexFormat.NumberHexFormat] affect formatting.\n *\n * @param format the
[HexFormat] to use for formatting, [HexFormat.Default] by default.\n
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic inline fun ULong.toHexString(format:
HexFormat = HexFormat.Default): String = data.toHexString(format)\n\n/**\n
* Parses an `ULong` value from this string using the specified [format].\n *\n * Note that only
[HexFormat.NumberHexFormat] affects parsing,\n *\n * and parsing is performed in case-insensitive manner.\n *\n *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n *\n * @throws
IllegalArgumentException if this string does not comply with the
specified [format].\n *\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\npublic
inline fun String.hexToULong(format: HexFormat = HexFormat.Default): ULong =
hexToLong(format).toULong()\n\n/**\n
* Parses an `ULong` value from this string using the specified
[format].\n// * Note that only [HexFormat.NumberHexFormat] affects parsing,\n// * and parsing is performed
in case-insensitive manner.\n// *
*\n * @param startIndex the beginning (inclusive) of the substring to parse, 0 by
default.\n// * @param endIndex the end (exclusive) of the substring to parse, length of this string by default.\n// *
@param format the [HexFormat] to use for parsing, [HexFormat.Default] by default.\n// * @throws
IndexOutOfBoundsException when [startIndex] or [endIndex] is out of range of this string indices.\n// * @throws
IllegalArgumentException when `startIndex > endIndex`.\n// * @throws IllegalArgumentException if the substring
does not comply with the specified [format].\n//
*\n//@ExperimentalStdlibApi\n//@SinceKotlin("1.9")\n//@InlineOnly\n//public
inline fun String.hexToULong(startIndex: Int = 0, endIndex: Int = length, format: HexFormat =
HexFormat.Default): ULong =\n//  hexToLong(startIndex, endIndex, format).toULong()\n\n// * Copyright
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```

package kotlin.text

/**
 * Represents a collection of captured groups in a single match of a regular expression.
 * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
 * An element of the collection at the particular index can be `null` if the corresponding group in the regular expression is optional and there was no match captured by that group.
 */
public interface MatchGroupCollection : Collection<MatchGroup?> {
    /** Returns a group with the specified [index].
     * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.
     */
    MatchGroup? get(index: Int): MatchGroup?

    /** Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.
     * @since Kotlin("1.1")
     */
    public interface MatchNamedGroupCollection : MatchGroupCollection {
        /** Returns a named group with the specified [name].
         * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.
         * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.
         * @throws UnsupportedOperationException if this match group collection doesn't support getting match groups by name, for example, when it's not supported by the current platform.
         */
        MatchGroup? get(name: String): MatchGroup?
    }
}

/** The range of indices in the original string where match was captured.
 * public val range: IntRange
 */
/** The substring from the input string captured by this match.
 * public val value: String
 */
/** A collection of groups matched by the regular expression.
 * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
 * public val groups: MatchGroupCollection
 */
/** A list of matched indexed group values.
 * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.
 * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.
 * If the group in the regular expression is optional and there were no match captured by that group, corresponding item in [groupValues] is an empty string.
 * @sample
 * samples.text.Regexps.matchDestructuringToGroupValues
 * public val groupValues: List<String>
 */
/** An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.
 * component1 corresponds to the value of the first group, component2 of the second, and so on.
 * @sample samples.text.Regexps.matchDestructuringToGroupValues
 * public val destructured: Destructured get() = Destructured(this)
 */
/** Returns a new [MatchResult] with the results for the next match, starting at the position at which the last match ended (at the character after the last matched character).
 * public fun next(): MatchResult
 */
/** Provides components for destructuring assignment of group values.
 * [component1] corresponds to the value of the first group, [component2] of the second, and so on.
 * If the group in the regular expression is optional and there were no match captured by that group, corresponding component value is an empty string.
 * @sample
 * samples.text.Regexps.matchDestructuringToGroupValues
 * public class Destructured internal constructor(public val match: MatchResult) {
     @kotlin.internal.InlineOnly
     public operator inline fun component1(): String = match.groupValues[1]
     @kotlin.internal.InlineOnly
     public operator inline fun component2(): String = match.groupValues[2]
     @kotlin.internal.InlineOnly
     public operator inline fun component3(): String = match.groupValues[3]
     @kotlin.internal.InlineOnly
     public operator inline fun component4(): String = match.groupValues[4]
     @kotlin.internal.InlineOnly
     public operator inline fun component5(): String = match.groupValues[5]
     @kotlin.internal.InlineOnly
     public operator inline fun component6(): String = match.groupValues[6]
     @kotlin.internal.InlineOnly
     public operator inline fun component7(): String = match.groupValues[7]
 }

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inline fun component8(): String = match.groupValues[8]\n    @kotlin.internal.InlineOnly\n    public operator
inline fun component9(): String = match.groupValues[9]\n    @kotlin.internal.InlineOnly\n    public operator
inline fun component10(): String = match.groupValues[10]\n\n    /**\n     * Returns destructured group values
as a list of strings.\n     * First value in
the returned list corresponds to the value of the first group, and so on.\n     *\n     * @sample
samples.text.Regexp.matchDestructuringToGroupValues\n     */\n    public fun toList(): List<String> =
match.groupValues.subList(1, match.groupValues.size)\n    }\n}", /*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName("DurationUnitKt")\n\npackage
kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n * \n *
The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n * \n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalTime::class)\n public expect enum class
DurationUnit {\n     /**\n     * Time unit representing one nanosecond, which is 1/1000
of a microsecond.\n     *\n     * NANOSECONDS,\n     */\n     /**\n     * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n     *\n     * MICROSECONDS,\n     */\n     /**\n     * Time unit representing one millisecond,
which is 1/1000 of a second.\n     *\n     * MILLISECONDS,\n     */\n     /**\n     * Time unit representing one second.\n
     *\n     * SECONDS,\n     */\n     /**\n     * Time unit representing one minute.\n     *\n     * MINUTES,\n     */\n     /**\n
     * Time unit representing one hour.\n     *\n     * HOURS,\n     */\n     /**\n     * Time unit representing one day, which is always equal to
24 hours.\n     *\n     * DAYS;\n     }\n\n    /** Converts the given time duration [value] expressed in the specified
[sourceUnit] into the specified [targetUnit].\n     *\n @SinceKotlin("1.3")\n     internal expect fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n\n    // overflown
result is unspecified\n @SinceKotlin("1.5")\n     internal expect fun convertDurationUnitOverflow(value: Long,
sourceUnit:
DurationUnit, targetUnit: DurationUnit): Long\n\n    // overflown result is coerced in the Long range
boundaries\n @SinceKotlin("1.5")\n     internal expect fun convertDurationUnit(value: Long, sourceUnit:
DurationUnit, targetUnit: DurationUnit):
Long\n\n\n @SinceKotlin("1.3")\n @Suppress("REDUNDANT_ELSE_IN_WHEN")\n     internal fun
DurationUnit.shortName(): String = when (this) {\n         DurationUnit.NANOSECONDS -> \"ns\"\n
DurationUnit.MICROSECONDS -> \"us\"\n         DurationUnit.MILLISECONDS -> \"ms\"\n
DurationUnit.SECONDS -> \"s\"\n         DurationUnit.MINUTES -> \"m\"\n         DurationUnit.HOURS -> \"h\"\n
DurationUnit.DAYS -> \"d\"\n         else -> error(\"Unknown unit: $this\")\n     }\n\n @SinceKotlin("1.5")\n     internal fun
durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n         \"ns\" ->
DurationUnit.NANOSECONDS\n         \"us\" -> DurationUnit.MICROSECONDS\n         \"ms\" ->
DurationUnit.MILLISECONDS\n         \"s\" -> DurationUnit.SECONDS\n         \"m\" -> DurationUnit.MINUTES\n
         \"h\" -> DurationUnit.HOURS\n         \"d\" -> DurationUnit.DAYS\n         else -> throw IllegalArgumentException(\"Unknown
duration unit short name: $shortName\")\n     }\n\n @SinceKotlin("1.5")\n     internal fun
durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n         when {\n             !isTimeComponent -> {\n                 when (isoChar) {\n                     'D' -> DurationUnit.DAYS\n                     else -> throw
IllegalArgumentException(\"Invalid or unsupported duration ISO non-time unit: $isoChar\")\n                 }\n             }\n             else -> {\n                 when (isoChar) {\n                     'H' -> DurationUnit.HOURS\n                     'M' ->
DurationUnit.MINUTES\n                     'S' -> DurationUnit.SECONDS\n                     else -> throw
IllegalArgumentException(\"Invalid duration ISO time unit: $isoChar\")\n                 }\n             }\n         }\n     }, /*\n * Copyright
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by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n     *\n\n package kotlin.time\n\n import
kotlin.annotation.AnnotationTarget.\n     *\n\n /**\n     * This annotation marks the experimental preview of the standard

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library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview state and has
a very high chance of being changed in the future.\n * Do not use it if you develop a library since your library will
become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration
annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-opt-
in=kotlin.time.ExperimentalTime`. \n *\n @RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n @MustBeDocumented\n @Retention(AnnotationRetention.BINARY)\n @Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n TYPEALIAS)\n @SinceKotlin("1.3")\n public annotation class
ExperimentalTime\n", /*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n package kotlin.time\n\n import kotlin.jvm.JvmInline\n\n /**\n * A source of time
for measuring time intervals.\n *\n * The only operation provided by the time source is [markNow]. It returns a
[TimeMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see
[measureTimedValue]\n */\n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalTime::class)\n public
interface TimeSource {\n\n    /**\n     * Marks a point in time on this time source.\n     *\n     * The returned
[TimeMark] instance encapsulates the captured time point and allows querying\n     * the duration
of time interval [elapsed][TimeMark.elapsedNow] from that point.\n     *\n     public fun markNow():
TimeMark\n\n    /**\n     * A [TimeSource] that returns [time marks][ComparableTimeMark] that can be compared
for difference with each other.\n     *\n     @SinceKotlin("1.9")\n     @WasExperimental(ExperimentalTime::class)\n     public interface WithComparableMarks : TimeSource {\n\n        override fun markNow(): ComparableTimeMark\n    }\n\n    /**\n     * The most precise time source available in the
platform.\n     *\n     * This time source returns its readings from a source of monotonic time when it is available in a
target platform,\n     * and resorts to a non-monotonic time source otherwise.\n     *\n     * The function [markNow]
of this time source returns the specialized [ValueTimeMark] that is an inline value class\n     * wrapping a platform-
dependent time reading value.\n     *\n     public object Monotonic : TimeSource.WithComparableMarks {\n\n        override fun markNow():
ValueTimeMark = MonotonicTimeSource.markNow()\n\n        override fun toString(): String =
MonotonicTimeSource.toString()\n\n        /**\n         * A specialized [kotlin.time.TimeMark] returned by
[TimeSource.Monotonic] time source.\n         *\n         * This time mark is implemented as an inline value class
wrapping a platform-dependent\n         * time reading value of the default monotonic time source, thus allowing to
avoid additional boxing\n         * of that value.\n         *\n         * The operations [plus] and [minus] are also
specialized to return [ValueTimeMark] type.\n         *\n         * This time mark implements [ComparableTimeMark]
and therefore is comparable with other time marks\n         * obtained from the same [TimeSource.Monotonic] time
source.\n         *\n         @SinceKotlin("1.9")\n         @WasExperimental(ExperimentalTime::class)\n         @JvmInline\n         public value class ValueTimeMark internal constructor(internal val reading:
ValueTimeMarkReading)\n\n         : ComparableTimeMark {\n\n             override fun elapsedNow(): Duration =
MonotonicTimeSource.elapsedFrom(this)\n\n             override fun plus(duration: Duration): ValueTimeMark =
MonotonicTimeSource.adjustReading(this, duration)\n\n             override fun minus(duration: Duration):
ValueTimeMark = MonotonicTimeSource.adjustReading(this, -duration)\n\n             override fun hasPassedNow():
Boolean = !elapsedNow().isNegative()\n\n             override fun hasNotPassedNow(): Boolean =
elapsedNow().isNegative()\n\n             override fun minus(other: ComparableTimeMark): Duration {\n                 if
(other !is ValueTimeMark)\n                     throw IllegalArgumentException("Subtracting or comparing time marks
from different time sources is not possible: $this and $other")\n                 return this.minus(other)\n             }\n\n             /**\n              * Returns the duration elapsed between the [other] time mark obtained from the same
[TimeSource.Monotonic] time source

```

and `this` time mark.  
 \* The returned duration can be infinite if the time marks are far away from each other and  
 \* the result doesn't fit into [Duration] type, or if one time mark is infinitely distant, or if both `this` and [other] time marks lie infinitely distant on the opposite sides of the time scale.  
 \* Two infinitely distant time marks on the same side of the time scale are considered equal and the duration between them is [Duration.ZERO].  
 public operator fun minus(other: ValueTimeMark): Duration = MonotonicTimeSource.differenceBetween(this, other)  
 /\*\*  
 \* Compares this time mark with the [other] time mark for order.  
 \* - Returns zero if this time mark represents the same moment of time as the [other] time mark.  
 \* - Returns a negative number if this time mark is earlier than the [other] time mark.  
 \* - Returns a positive number if this time mark is later than the [other] time mark.  
 public operator fun compareTo(other: ValueTimeMark): Int = (this - other).compareTo(Duration.ZERO)  
 }  
 public companion object {  
 }  
 /\*\* A platform-specific reading type that is wrapped by [TimeSource.Monotonic.ValueTimeMark] inline class.  
 \* Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).  
 @SinceKotlin("1.9")  
 @WasExperimental(ExperimentalTime::class)  
 public interface TimeMark {  
 /\*\*  
 \* Returns the amount of time passed from this mark measured with the time source from which this mark was taken.  
 \* Note that the value returned by this function can change on subsequent invocations.  
 \* @throws IllegalArgumentException an implementation may throw if calculating the elapsed time involves adding a positive infinite duration to an infinitely distant past time mark or a negative infinite duration to an infinitely distant future time mark.  
 public abstract fun elapsedNow(): Duration  
 /\*\*  
 \* Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].  
 \* The returned time mark is more `_late_` when the [duration] is positive, and more `_early_` when the [duration] is negative.  
 \* If the time mark is adjusted too far in the past or in the future, it may saturate to an infinitely distant time mark.  
 \* In that case, [elapsedNow] will return an infinite duration elapsed from such infinitely distant mark.  
 \* @throws IllegalArgumentException an implementation may throw if a positive infinite duration is added to an infinitely distant past time mark or a negative infinite duration is added to an infinitely distant future time mark.  
 public operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)  
 /\*\*  
 \* Returns a time mark on the same time source that is behind this time mark by the specified [duration].  
 \* The returned time mark is more `_early_` when the [duration] is positive, and more `_late_` when the [duration] is negative.  
 \* If the time mark is adjusted too far in the past or in the future, it may saturate to an infinitely distant time mark.  
 \* In that case, [elapsedNow] will return an infinite duration elapsed from such infinitely distant mark.  
 \* @throws IllegalArgumentException an implementation may throw if a positive infinite duration is subtracted from an infinitely distant future time mark or a negative infinite duration is subtracted from an infinitely distant past time mark.  
 public open operator fun minus(duration: Duration): TimeMark = plus(-duration)  
 /\*\*  
 \* Returns true if this time mark has passed according to the time source from which this mark was taken.  
 \* Note that the value returned by this function can change on subsequent invocations.  
 \* If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.  
 public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()  
 /\*\*  
 \* Returns false if this time mark has not passed according to the time source from which this mark was taken.  
 \* Note that the value returned by this function can change on subsequent invocations.  
 \* If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.  
 public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()  
 }  
 /\*\* A [TimeMark] that can be compared for difference with other time marks obtained from the same [TimeSource.WithComparableMarks] time



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source.\n *\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\npublic interface
ComparableTimeMark : TimeMark, Comparable<ComparableTimeMark> {\n public abstract override operator
fun plus(duration: Duration): ComparableTimeMark\n public open override operator fun minus(duration:
Duration): ComparableTimeMark = plus(-duration)\n\n /**\n * Returns the duration elapsed between the [other]
time mark and `this` time mark.\n *\n * The returned duration can be infinite if the time marks are far away
from each other and\n *\n * the result doesn't fit into [Duration] type,\n *\n * or if one time mark is infinitely distant, or
if both `this` and [other] time marks\n *\n * lie infinitely distant on the opposite sides of the time scale.\n *\n
*\n * Two infinitely distant time marks on the same side of the time scale are considered equal and\n *\n * the
duration between them is [Duration.ZERO].\n *\n *\n * Note that the other time mark must be obtained from the
same time source as this one.\n *\n *\n * @throws IllegalArgumentException if time marks were obtained from
different time sources.\n *\n *\n public operator fun minus(other: ComparableTimeMark): Duration\n\n /**\n *\n *
Compares this time mark with the [other] time mark for order.\n *\n *\n * - Returns zero if this time mark
represents *the same moment* of time as the [other] time mark.\n *\n * - Returns a negative number if this time mark
is *earlier* than the [other] time mark.\n *\n * - Returns a positive number if this time mark is *later* than the [other]
time mark.\n *\n *\n * Note that the other time mark must be obtained from the same time source as this one.\n
*\n *\n * @throws IllegalArgumentException if time marks were obtained from
different time sources.\n *\n *\n public override operator fun compareTo(other: ComparableTimeMark): Int =\n
(this - other).compareTo(Duration.ZERO)\n\n /**\n *\n * Returns `true` if two time marks from the same time
source represent the same moment of time, and `false` otherwise,\n *\n * including the situation when the time marks
were obtained from different time sources.\n *\n *\n override fun equals(other: Any?): Boolean\n override fun
hashCode(): Int\n}\n\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) :
TimeMark {\n override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n override fun
plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}\n\n",/**\n * Copyright
2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n *\npackage kotlin.time\nimport
kotlin.math.sign\n\n@SinceKotlin("1.3")\ninternal expect object MonotonicTimeSource :
TimeSource.WithComparableMarks {\n override fun markNow(): TimeSource.Monotonic.ValueTimeMark\n
fun elapsedFrom(timeMark: TimeSource.Monotonic.ValueTimeMark): Duration\n fun differenceBetween(one:
TimeSource.Monotonic.ValueTimeMark, another: TimeSource.Monotonic.ValueTimeMark): Duration\n fun
adjustReading(timeMark: TimeSource.Monotonic.ValueTimeMark, duration: Duration):
TimeSource.Monotonic.ValueTimeMark\n}\n\n/**\n * An abstract class used to implement time sources that return
their readings as [Long] values in the specified [unit].\n *\n * Time marks returned by this time source can be
compared for difference with other time marks\n *\n * obtained from the same time source.\n *\n * @property unit The
unit in which this time source's readings are expressed.\n
*\n *\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\npublic abstract class
AbstractLongTimeSource(protected
val unit: DurationUnit) : TimeSource.WithComparableMarks {\n /**\n *\n * This protected method should be
overridden to return the current reading of the time source expressed as a [Long] number\n *\n * in the unit specified
by the [unit] property.\n *\n *\n * Note that the value returned by this method when [markNow] is called the first
time is used as `"zero"` reading\n *\n * and the difference from this `"zero"` reading is calculated for subsequent
values.\n *\n * Therefore, it's not recommended to return values farther than `Long.MAX_VALUE` from the
first returned reading\n *\n * as this will cause this time source flip over future/past boundary for the returned time
marks.\n *\n *\n protected abstract fun read(): Long\n\n private val zero by lazy { read() }\n private fun
adjustedRead(): Long = read() - zero\n\n private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : ComparableTimeMark
{\n override fun elapsedNow(): Duration =\n saturatingOriginsDiff(timeSource.adjustedRead(),
startedAt, timeSource.unit) - offset\n\n override fun plus(duration: Duration): ComparableTimeMark {\n
val unit = timeSource.unit\n if (duration.isInfinite()) {\n val newValue = saturatingAdd(startedAt,

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unit, duration)\n        return LongTimeMark(newValue, timeSource, Duration.ZERO)\n    }\n    val
durationInUnit = duration.truncateTo(unit)\n    val rest = (duration - durationInUnit) + offset\n    var sum
= saturatingAdd(startedAt, unit, durationInUnit)\n    val restInUnit = rest.truncateTo(unit)\n    sum =
saturatingAdd(sum, unit, restInUnit)\n    var restUnderUnit = rest - restInUnit\n    val restUnderUnitNs =
restUnderUnit.inWholeNanoseconds\n    if (sum != 0L && restUnderUnitNs != 0L && (sum xor
restUnderUnitNs) < 0L) {\n
    // normalize offset to be the same sign as new startedAt\n        val correction =
restUnderUnitNs.sign.toDuration(unit)\n        sum = saturatingAdd(sum, unit, correction)\n
restUnderUnit -= correction\n    }\n    val newValue = sum\n    val newOffset = if
(newValue.isSaturated()) Duration.ZERO else restUnderUnit\n    return LongTimeMark(newValue,
timeSource, newOffset)\n    }\n    override fun minus(other: ComparableTimeMark): Duration {\n        if
(other !is LongTimeMark || this.timeSource != other.timeSource)\n            throw
IllegalArgumentException("Subtracting or comparing time marks from different time sources is not possible: $this
and $other")\n        val startedAtDiff = saturatingOriginsDiff(this.startedAt, other.startedAt, timeSource.unit)\n
return startedAtDiff + (offset - other.offset)\n    }\n    override fun equals(other: Any?): Boolean =\n        other
is LongTimeMark && this.timeSource == other.timeSource && (this - other) == Duration.ZERO\n    override
fun hashCode(): Int = offset.hashCode() * 37 + startedAt.hashCode()\n    override fun toString(): String =
"\nLongTimeMark($startedAt${timeSource.unit.shortName()} + $offset, $timeSource)"
}\n    override fun
markNow(): ComparableTimeMark = LongTimeMark(adjustedRead(), this, Duration.ZERO)\n}\n\n/**\n * An
abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].\n
*\n * @property unit The unit in which this time source's readings are expressed.\n
*\n * @Since Kotlin("1.3")\n * @ExperimentalTime\n * @Deprecated("Using AbstractDoubleTimeSource is no longer
recommended, use AbstractLongTimeSource instead.")\n */\npublic abstract class
AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource.WithComparableMarks {\n    /**\n *
This protected method should be overridden to return the current reading of
the time source expressed as a [Double] number\n * in the unit specified by the [unit] property.\n *
*\n */\n    protected abstract fun read(): Double\n\n    @Suppress("DEPRECATION")\n    private class
DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val
offset: Duration) : ComparableTimeMark {\n        override fun elapsedNow(): Duration = (timeSource.read() -
startedAt).toDuration(timeSource.unit) - offset\n        override fun plus(duration: Duration): ComparableTimeMark
= DoubleTimeMark(startedAt, timeSource, offset + duration)\n\n        override fun minus(other:
ComparableTimeMark): Duration {\n            if (other !is DoubleTimeMark || this.timeSource != other.timeSource)\n
throw IllegalArgumentException("Subtracting or comparing time marks from different time sources is not
possible: $this and $other")\n            if (this.offset == other.offset && this.offset.isInfinite()) return
Duration.ZERO\n
            val offsetDiff = this.offset - other.offset\n            val startedAtDiff = (this.startedAt -
other.startedAt).toDuration(timeSource.unit)\n            return if (startedAtDiff == -offsetDiff) Duration.ZERO else
startedAtDiff + offsetDiff\n        }\n\n        override fun equals(other: Any?): Boolean {\n            return other is
DoubleTimeMark && this.timeSource == other.timeSource && (this - other) == Duration.ZERO\n        }\n\n        override fun hashCode(): Int {\n            return (startedAt.toDuration(timeSource.unit) + offset).hashCode()\n
}\n\n        override fun toString(): String = "\nDoubleTimeMark($startedAt${timeSource.unit.shortName()} + $offset,
$timeSource)"
}\n\n        override fun markNow(): ComparableTimeMark = DoubleTimeMark(read(), this,
Duration.ZERO)\n}\n\n/**\n * A time source that has programmatically updatable readings. It is useful as a
predictable source of time in tests.\n * *\n * The current reading value can be advanced by the specified
duration amount with the operator [plusAssign]:\n * *\n * ```\n * val timeSource = TestTimeSource()\n * timeSource
+= 10.seconds\n * ```\n * *\n * Time marks returned by this time source can be compared for difference with other
time marks\n * obtained from the same time source.\n * *\n * Implementation note: the current reading value is stored

```

as a [Long] number of nanoseconds,\n \* thus it's capable to represent a time range of approximately \u00b1292 years.\n \* Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n \* \n @SinceKotlin("1.9")\n @WasExperimental(ExperimentalTime::class)\n public class TestTimeSource : AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n private var reading: Long = 0L\n\n init {\n markNow() // fix zero reading in the super time source\n }\n\n override fun read(): Long = reading\n\n /\*\*\n \* Advances the current reading value of this time source by the specified [duration].\n \*\n \* [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n \* For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n \* the duration value is rounded to zero nanoseconds.\n \*\n \* @throws IllegalStateException when the reading value overflows as the result of this operation.\n \*\n public operator fun plusAssign(duration: Duration) {\n val longDelta = duration.toLong(unit)\n if (!longDelta.isSaturated()) {\n // when delta fits in long, add it as long\n val newReading = reading + longDelta\n if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\n reading = newReading\n } else {\n val half = duration / 2\n if (!half.toLong(unit).isSaturated()) {\n val readingBefore = reading\n try {\n plusAssign(half)\n\n plusAssign(duration - half)\n } catch (e: IllegalStateException) {\n reading = readingBefore\n throw e\n }\n } else {\n overflow(duration)\n }\n }\n }\n\n private fun overflow(duration: Duration) {\n throw IllegalStateException("TestTimeSource will overflow if its reading \${reading}\${unit.shortName()} is advanced by \$duration.")\n }\n\n /\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\n @file:kotlin.jvm.JvmName("LazyKt")\n @file:kotlin.jvm.JvmMultifileClass\n\n package kotlin\n\n import kotlin.reflect.KProperty\n\n /\*\*\n \* Represents a value with lazy initialization.\n \*\n \* To create an instance of [Lazy] use the [lazy] function.\n \*\n public interface Lazy<out T> {\n\n /\*\*\n \* Gets the lazily initialized value of the current Lazy instance.\n \* Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n \*\n public val value: T\n\n /\*\*\n \* Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n \* Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n \*\n public fun isInitialized(): Boolean\n\n /\*\*\n \* Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n \*\n public fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n /\*\*\n \* An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n \*\n \* This extension allows to use instances of Lazy for property delegation:\n \*\n `val property: String by lazy { initializer }`\n \*\n @kotlin.internal.InlineOnly\n public inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<\*>): T = value\n\n /\*\*\n \* Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n \*\n public enum class LazyThreadSafetyMode {\n\n /\*\*\n \* Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n \*\n SYNCHRONIZED,\n\n /\*\*\n \* Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n \* but only the first returned value will be used as the value of [Lazy] instance.\n \*\n PUBLICATION,\n\n /\*\*\n \* No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\n \*\n \* This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n \*\n NONE,\n\n\n internal object UNINITIALIZED\_VALUE\n\n // internal to be called from lazy in JS\n internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n private var initializer: (() -> T)? = initializer\n private var \_value: Any? = UNINITIALIZED\_VALUE\n\n override val value: T\n get() {\n if (\_value === UNINITIALIZED\_VALUE) {\n \_value = initializer!!()\n initializer = null\n }\n\n @Suppress("UNCHECKED\_CAST")\n return \_value as T\n }\n\n override fun isInitialized(): Boolean = \_value !== UNINITIALIZED\_VALUE\n\n override fun toString(): String = if (isInitialized()) value.toString() else "Lazy value not initialized yet.\n\n private fun writeReplace(): Any =

```

InitializedLazyImpl(value)\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>,
Serializable {\n\n  override fun isInitialized(): Boolean = true\n\n  override fun toString(): String =
value.toString()\n\n}\n\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.time.Duration.Companion.milliseconds\n\n//
Long time reading saturation math, shared between JVM and Native\n\ninternal fun saturatingAdd(value: Long,
unit: DurationUnit, duration: Duration): Long {\n  val durationInUnit = duration.toLong(unit)\n  if
(value.isSaturated()) { // the reading is infinitely saturated\n    return checkInfiniteSumDefined(value, duration,
durationInUnit)\n  }\n  if (durationInUnit.isSaturated()) { // duration doesn't fit in Long units\n    return
saturatingAddInHalves(value, unit, duration)\n  }\n  val result = value + durationInUnit\n  if (((value xor
result) and (durationInUnit xor result)) < 0) {\n    return if (value < 0) Long.MIN_VALUE else
Long.MAX_VALUE\n  }\n  return result\n}\n\nprivate fun checkInfiniteSumDefined(value: Long, duration:
Duration,
durationInUnit: Long): Long {\n  if (duration.isInfinite() && (value xor durationInUnit < 0)) throw
IllegalArgumentException("Summing infinities of different signs")\n  return value\n}\n\nprivate fun
saturatingAddInHalves(value: Long, unit: DurationUnit, duration: Duration): Long {\n  val half = duration / 2\n
val halfInUnit = half.toLong(unit)\n  if (halfInUnit.isSaturated()) {\n    return halfInUnit // value + inf == inf,
return saturated value\n  } else {\n    return saturatingAdd(saturatingAdd(value, unit, half), unit, duration -
half)\n  }\n}\n\nprivate fun infinityOfSign(value: Long): Duration = if (value < 0) Duration.NEG_INFINITE else
Duration.INFINITE\n\ninternal fun saturatingDiff(valueNs: Long, origin: Long, unit: DurationUnit): Duration {\n
if (origin.isSaturated()) { // MIN_VALUE or MAX_VALUE\n  return -infinityOfSign(origin)\n }\n return
saturatingFiniteDiff(valueNs, origin, unit)\n}\n\ninternal fun saturatingOriginsDiff(origin1:
Long, origin2: Long, unit: DurationUnit): Duration {\n  if (origin2.isSaturated()) {\n    if (origin1 == origin2)
return Duration.ZERO // saturated values of the same sign are considered equal\n    return -
infinityOfSign(origin2)\n  }\n  if (origin1.isSaturated()) {\n    return infinityOfSign(origin1)\n  }\n return
saturatingFiniteDiff(origin1, origin2, unit)\n}\n\nprivate fun saturatingFiniteDiff(value1: Long, value2: Long, unit:
DurationUnit): Duration {\n  val result = value1 - value2\n  if ((result xor value1) and (result xor value2).inv() <
0) { // Long overflow\n    if (unit < DurationUnit.MILLISECONDS) {\n      val unitsInMilli =
convertDurationUnit(1, DurationUnit.MILLISECONDS, unit)\n      val resultMs = value1 / unitsInMilli - value2
/ unitsInMilli\n      val resultUnit = value1 % unitsInMilli - value2 % unitsInMilli\n      return
resultMs.milliseconds + resultUnit.toDuration(unit)\n    } else {\n      return
-infinityOfSign(result)\n    }\n  }\n return
result.toDuration(unit)\n}\n\n@Suppress("NOTHING_TO_INLINE")\n\ninternal inline fun Long.isSaturated():
Boolean =\n  (this - 1) or 1 == Long.MAX_VALUE // == either MAX_VALUE or MIN_VALUE\n\n", "/*\n *
Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration of
elapsed time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\n\npublic inline fun measureTime(block:
() -> Unit): Duration {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return
TimeSource.Monotonic.measureTime(block)\n}\n\n\n/**\n * Executes the given function [block] and
returns the duration of elapsed time interval.\n * The elapsed time is measured with the specified `this`
[TimeSource] instance.\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\n\npublic inline
fun TimeSource.measureTime(block: () -> Unit): Duration {\n  contract {\n    callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n  }\n  val mark = markNow()\n  block()\n  return
mark.elapsedNow()\n}\n\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource.Monotonic] instance.\n */\n\n@SinceKotlin("1.9")\n@WasExperimental(ExperimentalTime::class)\n\npublic inline fun

```

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TimeSource.Monotonic.measureTime(block: () -> Unit): Duration {
    contract {
        callsInPlace(block,
            InvocationKind.EXACTLY_ONCE)
    }
    val mark = markNow()
    block()
    return mark.elapsedNow()
}
Data class representing a result of executing an action,
    along with the duration of elapsed time interval.
    @property value the result of the action.
    @property duration the time elapsed to execute the action.

@SinceKotlin("1.9")
@WasExperimental(ExperimentalTime::class)
public data class TimedValue<T>(val
    value: T, val duration: Duration)
Executes the given function [block] and returns an instance of
[TimedValue] class, containing both
    the result of the function execution and the duration of elapsed time
    interval.
    The elapsed time is measured with [TimeSource.Monotonic].

@SinceKotlin("1.9")
@WasExperimental(ExperimentalTime::class)
public inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block,
            InvocationKind.EXACTLY_ONCE)
    }
    return
TimeSource.Monotonic.measureTimedValue(block)
Executes the given [block] and returns an
instance of [TimedValue] class, containing both
    the result of function execution and
    the duration of elapsed time interval.
    The elapsed time is measured with the specified `this` [TimeSource]
instance.

@SinceKotlin("1.9")
@WasExperimental(ExperimentalTime::class)
public inline fun <T>
TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block,
            InvocationKind.EXACTLY_ONCE)
    }
    val mark = markNow()
    val result = block()
    return TimedValue(result, mark.elapsedNow())
}
Executes the given [block] and returns an instance of
[TimedValue] class, containing both
    the result of function execution and the duration of elapsed time interval.
    The elapsed time is measured with the specified `this` [TimeSource.Monotonic] instance.

@SinceKotlin("1.9")
@WasExperimental(ExperimentalTime::class)
public inline fun <T>
TimeSource.Monotonic.measureTimedValue(block: () -> T): TimedValue<T> {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    }
    val mark = markNow()
    val result = block()
    return TimedValue(result, mark.elapsedNow())
}
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package
kotlin
nimport kotlin.coroutines.*
nimport kotlin.coroutines.intrinsics.*
nimport
kotlin.native.concurrent.SharedImmutable
Defines deep recursive function that keeps its stack on the
heap,
    which allows very deep recursive computations that do not use the actual call stack.
    To initiate a call to this deep recursive function use its [invoke] function.
    As a rule of thumb, it should be used if recursion goes deeper than a thousand calls.
    The [DeepRecursiveFunction] takes one parameter of type [T] and returns a
result of type [R].
    The [block] of code defines the body of a recursive function. In this block
[callRecursive][DeepRecursiveScope.callRecursive]
function can be used to make a recursive call
    to the declared function. Other instances of
[DeepRecursiveFunction] can be called
    in this scope with `callRecursive` extension, too.
    For example, take a look at the following recursive tree class and a deeply
    recursive instance of this tree with 100K nodes:
    class Tree(val left: Tree? = null, val right: Tree? = null) {
        val deepTree = generateSequence(Tree()) {
            Tree(it) }.take(100_000).last()
        }
        A regular recursive function can be defined to compute a depth of a
tree:
        fun depth(t: Tree?): Int =
            if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1
        println(depth(deepTree)) // StackOverflowError
        If this `depth` function is called for a `deepTree` it produces
`StackOverflowError` because of deep recursion.
        However, the `depth` function can be rewritten using
`DeepRecursiveFunction` in the following way, and then
        it successfully computes [depth(deepTree)][DeepRecursiveFunction.invoke] expression:
        val
depth = DeepRecursiveFunction<Tree?, Int> { t ->
            if (t == null) 0 else max(callRecursive(t.left),
                callRecursive(t.right)) + 1
        }
        println(depth(deepTree)) // Ok
        Deep recursive functions can also mutually call each other using a heap for the stack via
        [callRecursive][DeepRecursiveScope.callRecursive] extension. For example, the
        following pair of mutually recursive functions computes the number of tree nodes at
```

```

even depth in the tree.\n * \n * \n * val mutualRecursion = object {\n *     val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *         if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n *     }\n *     val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t ->\n *         if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right)\n *     }\n * }
\n * \n * @param [T] the function parameter type.\n * @param [R] the function result type.\n * @param
block the function body.\n * \n * @SinceKotlin("1.7")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * public
class DeepRecursiveFunction<T, R>(\n *     internal val block: suspend DeepRecursiveScope<T, R>.(T) ->
R)\n * )\n * /**\n * Initiates a call to this deep recursive function, forming a root of the call tree.\n * This operator
should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for\n * initial recursive
invocation. From inside of [DeepRecursiveScope] use\n * [callRecursive][DeepRecursiveScope.callRecursive].\n *
\n * @SinceKotlin("1.7")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * public operator fun <T, R>
DeepRecursiveFunction<T, R>.invoke(value: T): R =\n *     DeepRecursiveScopeImpl<T, R>(block,
value).runCallLoop()\n * /**\n * A scope class for [DeepRecursiveFunction] function declaration that defines
[callRecursive] methods to\n * recursively
call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n * \n * @param
[T] function parameter type.\n * @param [R] function result type.\n *
\n * \n * @RestrictsSuspension\n * @SinceKotlin("1.7")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * public
sealed class DeepRecursiveScope<T, R> {\n *     /**\n *     * Makes recursive call to this [DeepRecursiveFunction]
function putting the call activation frame on the heap,\n *     * as opposed to the actual call stack that is used by a
regular recursive call.\n *     * \n *     * public abstract suspend fun callRecursive(value: T): R\n *     * /**\n *     * Makes call
to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap,\n *     * as opposed to
the actual call stack that is used by a regular call.\n *     * \n *     * public abstract suspend fun <U, S>
DeepRecursiveFunction<U, S>.callRecursive(value: U): S\n *     * @Deprecated(\n *     *     level =
DeprecationLevel.ERROR,\n *     *     message
= \n *     *     \n *     *     'invoke' should not be called from DeepRecursiveScope. \n *     *     \n *     *     'Use 'callRecursive' to do
recursion in the heap instead of the call stack.\n *     *     \n *     *     replaceWith = ReplaceWith("\n *     *     this.callRecursive(value)")\n *     *     )\n *     * @Suppress("UNUSED_PARAMETER")\n *     * public operator fun DeepRecursiveFunction<*,
*\n *     * >.invoke(value: Any?): Nothing =\n *     *     throw UnsupportedOperationException("Should not be called from
DeepRecursiveScope")\n *     * )\n *     * // ===== Implementation =====\n *     * \n *     * private
typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) ->
Any?\n *     * \n *     * @SharedImmutable\n *     * private val UNDEFINED_RESULT =
Result.success(COROUTINE_SUSPENDED)\n *     * \n *     * @Suppress("UNCHECKED_CAST")\n *     * private class
DeepRecursiveScopeImpl<T, R>(\n *     *     block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n *     *     value: T)\n *     * ) :
DeepRecursiveScope<T, R>(), Continuation<R> {\n *     *     // Active function block\n *     *     private var function:
DeepRecursiveFunctionBlock = block\n *     *
\n *     *     as DeepRecursiveFunctionBlock\n *     *     // Value to call function with\n *     *     private var value: Any? = value\n *     *     //
Continuation of the current call\n *     *     private var cont: Continuation<Any?>? = this as Continuation<Any?>\n *     *     //
Completion result (completion of the whole call stack)\n *     *     private var result: Result<Any?> =
UNDEFINED_RESULT\n *     *     \n *     *     override val context: CoroutineContext\n *     *     get() = EmptyCoroutineContext\n *     *     \n *     *     override
fun resumeWith(result: Result<R>) {\n *     *         this.cont = null\n *     *         this.result = result\n *     *     }\n *     *     \n *     *     override
suspend fun callRecursive(value: T): R = suspendCoroutineUninterceptedOrReturn { cont ->\n *     *         // calling the
same function that is currently active\n *     *         this.cont = cont as Continuation<Any?>\n *     *         this.value = value\n *     *         \n *     *         COROUTINE_SUSPENDED\n *     *     }\n *     *     \n *     *     override suspend fun <U, S> DeepRecursiveFunction<U,
S>.callRecursive(value: U): S = suspendCoroutineUninterceptedOrReturn { cont ->\n *     *         // calling another
recursive
function\n *     *         val function = block as DeepRecursiveFunctionBlock\n *     *         with(this@DeepRecursiveScopeImpl)
{\n *     *             val currentFunction = this.function\n *     *             if (function !== currentFunction) {\n *     *                 // calling a

```

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different function -- create a trampoline to restore function ref\n        this.function = function\n
this.cont = crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n        } else {\n        //
calling the same function -- direct\n        this.cont = cont as Continuation<Any?>\n        }\n        this.value
= value\n    }\n    COROUTINE_SUSPENDED\n    }\n\n    private fun crossFunctionCompletion(\n
currentFunction: DeepRecursiveFunctionBlock,\n    cont: Continuation<Any?>\n    ): Continuation<Any?> =
Continuation(EmptyCoroutineContext) {\n    this.function = currentFunction\n    // When going back from a
trampoline we cannot just call cont.resume (stack
usage!)\n    // We delegate the cont.resumeWith(it) call to runCallLoop\n    this.cont = cont\n    this.result =
it\n    }\n\n    @Suppress(\"UNCHECKED_CAST\")\n    fun runCallLoop(): R {\n    while (true) {\n    //
Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith when the whole computation completes\n
val result = this.result\n    val cont = this.cont\n    ?: return (result as Result<R>).getOrNull() // done -
- final result\n    // The order of comparison is important here for that case of rogue class with broken equals\n
if (UNDEFINED_RESULT == result) {\n    // call \"function\" with \"value\" using \"cont\" as
completion\n    val r = try {\n    // This is block.startCoroutine(this, value, cont)\n
function.startCoroutineUninterceptedOrReturn(this, value, cont)\n    } catch (e: Throwable) {\n
cont.resumeWithException(e)\n
        continue\n    }\n    // If the function returns without suspension -- calls its continuation
immediately\n    if (r != COROUTINE_SUSPENDED)\n        cont.resume(r as R)\n    } else
{\n    // we returned from a crossFunctionCompletion trampoline -- call resume here\n    this.result =
UNDEFINED_RESULT // reset result back\n    cont.resumeWith(result)\n    }\n    }\n    }\n    }\"/>\n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated
file. DO NOT
EDIT!\n\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage
kotlin\n\nimport kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is
closer to negative
infinity.
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.floorDiv(other: Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/**\n * Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder
of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring
division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as
the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic
inline fun Byte.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/**\n * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.

```

```

*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Byte.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative
infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.floorDiv(other: Byte): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.mod(other: Byte): Byte = \n    this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.floorDiv(other: Short): Int = \n    this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the
remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero
or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.mod(other: Short): Short = \n    this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.floorDiv(other: Int): Int = \n    this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring
division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as
the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic
inline fun Short.mod(other: Int): Int = \n    this.toInt().mod(other)\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.floorDiv(other: Long): Long = \n    this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Short.mod(other: Long): Long = \n    this.toLong().mod(other)\n\n/** Divides this value by the other value,
flooring the result to an integer that is
closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.floorDiv(other: Byte): Int = \n    this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring
division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as
the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.mod(other: Byte): Byte = \n    this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.floorDiv(other: Short): Int = \n    this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the
same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n

```



```

*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.mod(other: Short): Short = \n  this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.floorDiv(other: Int): Int {\n  var q = this / other\n  if (this xor other < 0 && q * other != this) q--\n  return
q}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n
*\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute
value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.mod(other: Int): Int {\n  val r = this % other\n  return r + (other and (((r xor other) and (r or -r)) shr
31))}\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative
infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.floorDiv(other: Long): Long = \n  this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder
of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has
the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Int.mod(other: Long): Long = \n  this.toLong().mod(other)\n\n/**
Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.floorDiv(other: Byte): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has
the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.mod(other: Byte): Byte = \n  this.mod(other.toLong()).toByte()\n\n/** Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.floorDiv(other:
Short): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this
value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as the _divisor_
and has the absolute value less than the absolute value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.mod(other: Short): Short = \n  this.mod(other.toLong()).toShort()\n\n/** Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.floorDiv(other: Int): Long = \n  this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of
flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has
the same sign as the _divisor_
and has the absolute value less than the absolute value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.mod(other: Int): Int = \n  this.mod(other.toLong()).toInt()\n\n/** Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun Long.floorDiv(other: Long): Long {\n  var q = this / other\n  if (this xor other < 0 && q * other != this) q--\n
return q}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value
(divisor).\n *\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than
the absolute value of the divisor.\n
*^@SinceKotlin("1.5")@kotlin.internal.InlineOnly@kotlin.internal.IntrinsicConstEvaluation\npublic inline
fun

```

Long.mod(other: Long): Long {\n val r = this % other\n return r + (other and (((r xor other) and (r or -r)) shr 63))\n}\n\n/\*\*\n \* Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n \*\n \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.\n \*\n \* If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.\n

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Float.mod(other: Float): Float {\n val r = this % other\n return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r\n}\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero
```

or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.\n \*\n \* If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.\n

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Float.mod(other: Double): Double = \n this.toDouble().mod(other)\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n *\n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Double.mod(other: Float): Double = \n this.mod(other.toDouble())\n\n/**\n * Calculates the remainder of flooring division of this value (dividend) by the other value (divisor).\n *\n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n *\n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n
```

```
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\n@kotlin.internal.IntrinsicConstEvaluation\npublic inline fun Double.mod(other: Double): Double {\n val r = this % other\n return if (r != 0.0 && r.sign != other.sign) r + other else r\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
```

of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or zero if the object is null.\n *\n * @see Any.hashCode\n *\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard library.\n *\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\n *\n * @constructor Creates a version from all three components.\n *\n@SinceKotlin("1.1")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\n /**\n * Creates a version from [major] and [minor] components, leaving [patch] component zero.\n *\n public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n private val version = versionOf(major, minor, patch)\n\n private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n \n "Version components are out of range: $major.$minor.$patch"\n }\n return major.shl(16) + minor.shl(8) + patch\n }\n\n /**\n * Returns the string representation of this version\n *\n override fun toString(): String = "$major.$minor.$patch"\n\n override fun equals(other: Any?): Boolean {\n if (this === other) return true\n val otherVersion = (other as? KotlinVersion) ?: return false\n return this.version == otherVersion.version\n }\n\n override
```

```

fun hashCode(): Int = version\n\n override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n
/**\n * Returns `true` if this version is not less than the version specified\n * with the provided [major] and
[minor] components.\n */\n public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >=
versionOf(major, minor, 0)\n this.major > major || (this.major == major &&\n this.minor >=
minor)\n\n /**\n * Returns `true` if this version is not less than the version specified\n * with the provided
[major], [minor] and [patch] components.\n */\n public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean
= // this.version >= versionOf(major, minor, patch)\n this.major > major || (this.major == major &&\n
(this.minor > minor || this.minor == minor &&\n this.patch >= patch))\n\n companion object {\n
/**\n * Maximum value a version
component can have, a constant value 255.\n */\n // NOTE: Must be placed before CURRENT because its
initialization requires this field being initialized in JS\n public const val MAX_COMPONENT_VALUE =
255\n\n /**\n * Returns the current version of the Kotlin standard library.\n */\n
@kotlin.jvm.JvmField\n public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n
}\n}\n\n// this class is ignored during classpath normalization when considering whether to recompile dependencies
in Kotlin build\nprivate object KotlinVersionCurrentValue {\n @kotlin.jvm.JvmStatic\n fun get():
KotlinVersion = KotlinVersion(1, 9, 10) // value is written here automatically during build\n}\n\n"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage
kotlin\n\nimport kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n */\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n get() = throw NotImplementedError("Implementation is
intrinsic")\n\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\n\npackage kotlin\n\n/**\n *
Counts the number of set bits in the binary representation of this [Int] number.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic
expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in
the binary representation of this [Int] number.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Int] number.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set
bit of this [Int] number,\n * or zero, if this number is zero.\n
*/\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun
Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified
[bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least
significant bits on the right side.\n */\n * Rotating the number left by a negative bit count is the same as rotating it
right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n */\n * Rotating by a multiple
of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n

```

```

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the
specified [bitCount] number of bits.\n
 * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left
side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit
count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32)\n
returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Int.rotateRight(bitCount: Int): Int\n\n/**\n * Counts the number of set bits in the binary representation of this
[Long] number.\n *\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect
fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that
are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the
specified [bitCount] number
of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on
the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated
bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of
[Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.rotateLeft(bitCount: Int): Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the
specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number
as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n
*\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
Long.rotateRight(bitCount: Int): Long\n\n/**\n * Counts the number of set bits in the binary representation of this
[Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS -
Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant
bits that are zero in the binary representation of this [Byte] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a

```

number having a single bit set in the position of the most significant set bit of this [Byte] number, or zero, if this number is zero.

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number, or zero, if this number is zero.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n/**\n
```

```
 * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.
```

```
*\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n
```

```
`number.rotateLeft(-n) == number.rotateRight(n)`\n\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
```

```
Byte.rotateLeft(bitCount: Int): Byte =\n (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n/**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount]
```

```
number of bits. The least significant bits pushed out from the right side reenter the number as the most significant
```

```
bits on the left side.\n\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n
```

```
* `number.rotateRight(-n) == number.rotateLeft(n)`\n\n * Rotating by a multiple of
```

```
[Byte.SIZE_BITS] (8) returns the same number, or more generally\n
```

```
number.rotateRight(n % 8)`\n
```

```
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
```

```
Byte.rotateRight(bitCount: Int): Byte =\n (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
```

```
representation of this [Short] number.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a
```

```
number having a single bit set in the position of the most significant set bit of this [Short] number, or zero, if this number is zero.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a number having a single bit set in
```

```
the position of the least significant set bit of this [Short] number, or zero, if this number is zero.
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
```

```
inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits. The most significant bits
```

```
pushed out from the left side reenter the number as the least significant bits on the right side.\n
```

```
*\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n
```

```
* `number.rotateLeft(-n) == number.rotateRight(n)`\n\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
```

```
more generally\n
```

```
* `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
```

```

*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Short.rotateLeft(bitCount: Int): Short
= \n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**
Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count.\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Short.rotateRight(bitCount: Int): Short = \n (toInt().shl(16 - (bitCount and 15)) or (toInt() and
0xFFFF).ushr(bitCount and 15)).toShort()\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")\npublic inline fun <R> suspend(noinline block: suspend ()
-> R): suspend () -> R = block\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n@file:kotlin.jvm.JvmName("TuplesKt")\n\npackage kotlin\n\n/**
Represents a generic pair of two values.\n * There is no meaning attached to values in this class, it can be used
for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n * An
example of decomposing it into values:\n * @sample
samples.misc.Tuples.pairDestructuring\n * @param A type of the first value.\n * @param B type of the second
value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance
of Pair.\n *\npublic data class Pair<out A, out B>(\n public val first: A,\n public val second: B)\n) : Serializable
{\n\n /**
* Returns string representation of the [Pair] including its [first] and [second] values.\n *
*\n public override fun toString(): String = "$first, $second"\n}\n\n/**
* Creates a tuple of type [Pair] from this and
[that].\n * This can be useful for creating [Map] literals with less noise, for example:\n * @sample
samples.collections.Maps.instantiation.mapFromPairs\n *\npublic infix fun <A, B> A.to(that: B): Pair<A, B> =
Pair(this, that)\n\n/**
* Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n *\npublic
fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**
Represents a triad of values\n * There is no meaning attached to values in this class, it can be used for any
purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n * An
example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n * @param A
type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property
first First value.\n * @property second Second value.\n * @property third Third value.\n *\npublic data class
Triple<out A, out B, out C>(\n public val first: A,\n public val second: B,\n public val third: C)\n) : Serializable
{\n\n /**
* Returns string representation of the [Triple] including its [first], [second] and [third] values.\n
*\n public override fun toString(): String = "$first, $second, $third"\n}\n\n/**
* Converts this triple into a
list.\n * @sample samples.misc.Tuples.tripleToList\n *\npublic fun
<T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n", "/*\n * Copyright 2010-2023 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.*\n\n/**
* A range of values of type `UInt`.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class UIntRange(start:
UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt>, OpenEndRange<UInt> {\n
override val start: UInt get() = first\n override val endInclusive: UInt get() = last\n\n @Deprecated("Can
throw an exception when it's impossible to represent the value with UInt type, for example, when the range includes

```

```

MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.\n\n @SinceKotlin("1.9")\n
    @WasExperimental(ExperimentalStdlibApi::class)\n    override val endExclusive: UInt get() {\n        if (last ==\n
        UInt.MAX_VALUE) error("Cannot return the exclusive upper bound of a range that includes MAX_VALUE.")\n
        return last + 1\n    }\n\n    override fun contains(value: UInt): Boolean = first <= value && value <= last\n\n
    /**\n     * Checks if the range is empty.\n     * The range is empty if its start value is greater than the end\n
    value.\n     */\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n
        other is UIntRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last == other.last\n\n    override fun hashCode(): Int =\n
        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n    override fun\n
    toString(): String = "$first..$last"\n\n    companion object {\n        /** An empty range of values of type UInt. */\n
        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,\n
        UInt.MIN_VALUE)\n    }\n\n    /**\n     * A progression of values of type `UInt`.\n
    */\n\n    @SinceKotlin("1.5")\n    @WasExperimental(ExperimentalUnsignedTypes::class)\n    public open class\n
    UIntProgression(\n        internal constructor(\n            start: UInt,\n            endInclusive: UInt,\n            step: Int\n        ) : Iterable<UInt> {\n
        init {\n            if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n
            if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to\n
            avoid overflow on negation.")\n        }\n\n        /**\n         * The first element in the progression.\n
        */\n        public val first: UInt = start\n\n        /**\n         * The last element in the progression.\n
        */\n        public val last: UInt =\n        getProgressionLastElement(start, endInclusive, step)\n\n        /**\n         * The step of the progression.\n
        */\n        public val step: Int = step\n\n        final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first,\n
        last, step)\n\n        /**\n         * Checks if the progression is empty.\n         * Progression with a positive step is empty\n
        if its first element is greater than the last element.\n         * Progression with a negative step is empty if its first element\n
        is less than the last element.\n         */\n        public open fun isEmpty(): Boolean = if (step > 0) first > last else first <\n
        last\n\n        override fun equals(other: Any?): Boolean =\n            other is UIntProgression && (isEmpty() &&\n
            other.isEmpty()) ||\n            first == other.first && last == other.last && step == other.step)\n\n        override fun\n
        hashCode(): Int =\n            if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n        override fun\n
        toString(): String = if (step > 0) "$first..$last step $step" else "$first downTo $last step ${-step}"\n\n        companion\n
        object {\n            /**\n             * Creates UIntProgression within the specified bounds of a closed range.\n
            */\n            * The\n            progression starts\n            with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n
            * In order to go backwards the [step] must be negative.\n            * [step] must be greater than\n
            `Int.MIN_VALUE` and not equal to zero.\n            */\n            public fun fromClosedRange(rangeStart: UInt, rangeEnd:\n
            UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n        }\n\n        /**\n         * An iterator\n
        over a progression of values of type `UInt`.\n         * @property step the number by which the value is incremented on\n
        each step.\n         */\n        @SinceKotlin("1.3")\n        private class UIntProgressionIterator(first: UInt, last: UInt, step: Int) :  

        Iterator<UInt> {\n            private val finalElement = last\n            private var hasNext: Boolean = if (step > 0) first <= last else\n
            first >= last\n            private val step = step.toUInt() // use 2-complement math for negative steps\n            private var next = if  

            (hasNext) first else finalElement\n\n            override fun hasNext():  

            Boolean = hasNext\n\n            override fun next(): UInt {\n                val value = next\n                if (value == finalElement) {\n
                    if (!hasNext) throw kotlin.NoSuchElementException()\n                    hasNext = false\n                } else {\n
                    next +=\n                    step\n                }\n                return value\n            }\n        }\n\n        /**\n         * Copyright 2010-2023 JetBrains s.r.o. and Kotlin Programming\n
        Language contributors.\n         * Use of this source code is governed by the Apache 2.0 license that can be found in the\n
        license/LICENSE.txt file.\n         */\n        @Auto-generated file. DO NOT EDIT!\n        package kotlin.ranges\n\n        import\n
        kotlin.internal\n\n        /**\n         * A range of values of type `ULong`.\n
        */\n\n        @SinceKotlin("1.5")\n        @WasExperimental(ExperimentalUnsignedTypes::class)\n        public class\n
        ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),  

        ClosedRange<ULong>, OpenEndRange<ULong> {\n            override val start: ULong get() = first\n            override val\n
            endInclusive: ULong get() = last\n        }\n\n        @Deprecated("Can

```

```

throw an exception when it's impossible to represent the value with ULong type, for example, when the range
includes MAX_VALUE. It's recommended to use 'endInclusive' property that doesn't throw.
)
@SinceKotlin("1.9")
@WasExperimental(ExperimentalStdlibApi::class)
override val endExclusive:
ULong get() {
    if (last == ULong.MAX_VALUE) error("Cannot return the exclusive upper bound of a range
that includes MAX_VALUE.")
    return last + 1u
}
override fun contains(value: ULong): Boolean =
first <= value && value <= last
/**
 * Checks if the range is empty.
 * The range is empty if its
start value is greater than the end value.
 */
override fun isEmpty(): Boolean = first > last
override fun
equals(other: Any?): Boolean =
    other is ULongRange && (isEmpty() && other.isEmpty() ||
        first
== other.first && last == other.last)
override fun hashCode(): Int =
    if
(isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())
override fun
toString(): String = "$first..$last"
companion object {
    /** An empty range of values of type ULong.
 */
    public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)
}
}
/** A progression of values of type `ULong`.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
public open class
ULongProgression(
    internal constructor(
        start: ULong,
        endInclusive: ULong,
        step: Long
    ) :
Iterable<ULong> {
    init {
        if (step == 0.toLong()) throw kotlin.IllegalArgumentException("Step must be
non-zero.")
        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater
than Long.MIN_VALUE to avoid overflow on negation.")
    }
    /**
 * The first element in the
progression.
 */
    public val first: ULong = start
    /**
 *
The last element in the progression.
 */
    public val last: ULong = getProgressionLastElement(start,
endInclusive, step)
    /**
 * The step of the progression.
 */
    public val step: Long = step
    final
override fun iterator(): Iterator<ULong> = ULongProgressionIterator(first, last, step)
    /**
 * Checks if the
progression is empty.
 * Progression with a positive step is empty if its first element is greater than the last
element.
 * Progression with a negative step is empty if its first element is less than the last element.
 */
    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last
    override fun equals(other: Any?):
Boolean =
        other is ULongProgression && (isEmpty() && other.isEmpty() ||
            first == other.first
&& last == other.last && step == other.step)
    override fun hashCode(): Int =
        if (isEmpty()) -1 else (31 *
(31 * (first xor (first shr 32)).toInt()
+ (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())
    override fun toString(): String = if (step >
0) "$first..$last step $step" else "$first downTo $last step ${-step}"
companion object {
    /**
 *
Creates ULongProgression within the specified bounds of a closed range.
 * The progression starts with the
[rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].
 * In order
to go backwards the [step] must be negative.
 * [step] must be greater than `Long.MIN_VALUE` and
not equal to zero.
 */
    public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long):
ULongProgression = ULongProgression(rangeStart, rangeEnd, step)
}
}
/** An iterator over a
progression of values of type `ULong`.
 * @property step the number by which the value is incremented on each
step.
 */
@SinceKotlin("1.3")
private class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : Iterator<ULong> {
    private val finalElement
= last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private val step =
step.toULong() // use 2-complement math for negative steps
    private var next = if (hasNext) first else
finalElement
    override fun hasNext(): Boolean = hasNext
    override fun next(): ULong {
        val value =
next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}
}
/** Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package kotlin.math
/**
 *
Returns the smaller of two values.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public

```



```

inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun min(a: ULong, b: ULong): ULong {
    return minOf(a, b)
}

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun countOneBits(): Int =
    toInt().countOneBits()

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun countLeadingZeroBits(): Int =
    toInt().countLeadingZeroBits()

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun countTrailingZeroBits(): Int =
    toInt().countTrailingZeroBits()

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun takeHighestOneBit(): UInt =
    toInt().takeHighestOneBit().toUInt()

@SinceKotlin("1.5")@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)@kotlin.internal.InlineOnly
public inline fun takeLowestOneBit(): UInt =
    toInt().takeLowestOneBit().toUInt()

@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun rotateLeft(bitCount: Int):
    UInt = toInt().rotateLeft(bitCount).toUInt()

@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)@kotlin.internal.InlineOnly
public inline fun rotateRight(bitCount: Int):
    UInt = toInt().rotateRight(bitCount).toUInt()

```

of this [ULong] number.\n \*  
 @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n /\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n /\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n /\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number, or zero, if this number is zero.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n /\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number, or zero, if this number is zero.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n /\*\*\n \* Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count: `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [ULong.SIZE\_BITS] (64) returns the same number, or more generally `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n \*/\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n /\*\*\n \* Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count: `number.rotateRight(-n) == number.rotateLeft(n)`\n \* Rotating by a multiple of [ULong.SIZE\_BITS] (64) returns the same number, or more generally `number.rotateRight(n) == number.rotateRight(n % 64)`\n \*/\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n /\*\*\n \* Counts the number of set bits in the binary representation of this [UByte] number.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n /\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n /\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n \*/\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n /\*\*\n \* Returns

a number having a single bit set in the position of the most significant set bit of this [UByte] number, \n \* or zero, if this number is zero.\n \*  
`@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n` \* Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number, \n \* or zero, if this number is zero.\n \*  
`@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n` \* Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \*  
`* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n *  
@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *  
* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *  
* Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n *  
@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n * Counts the number of set bits in the binary representation of this [UShort] number.\n *  
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n *  
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n *  
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number, \n * or zero, if this number is zero.\n *  
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number, \n * or zero, if this number is zero.\n *  
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *  
* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *`

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Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n**\n
* Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n *
The least significant bits pushed out from the right side reenter the number as the most significant bits on the left
side.\n * \n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit
count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * \n * Rotating by a multiple of [UShort.SIZE_BITS]
(16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache
2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// (a - b) mod
c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if
(ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n
val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n**\n * Calculates the final
element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from
[start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * \n * No
validation on passed parameters is performed. The given parameters should satisfy the condition:\n * \n * - either
`step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * \n * @param start first element of the
progression\n * @param end ending bound for the progression\n * @param
step increment, or difference of successive elements in the progression\n * @return the final element of the
progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun
getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\n    step > 0 -> if (start >= end) end else
end - differenceModulo(end, start, step.toUInt())\n    step < 0 -> if (start <= end) end else end +
differenceModulo(start, end, (-step).toUInt())\n    else -> throw kotlin.IllegalArgumentException("Step is
zero.")\n}\n\n**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the
progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in
case of a negative\n * [step].\n * \n * No validation on passed parameters is performed. The given parameters should
satisfy the condition:\n * \n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * \n *
@param
start first element of the progression\n * @param end ending bound for the progression\n * @param step increment,
or difference of successive elements in the progression\n * @return the final element of the progression\n *
@param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment,
or difference of successive elements in the progression\n * @return the final element of the progression\n *
@suppress\n */\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong,
end: ULong, step: Long): ULong = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end,
start, step.toULong())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-
step).toULong())\n    else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n", "/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string representation of unsigned numbers\n\npackage
kotlin.text\n\n**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//\n@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n**\n * Returns a string
representation of this [Short] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix]

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is not a valid radix for number to string conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\n\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n**\n * Returns a string representation of this [Int] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\n\npublic\n\n/*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n\n**\n * Returns a string representation of this [Long] value in the specified [radix].\n * \n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun\n\nULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByte():\n\nUByte = toUByteOrNull() ?: numberFormatException(this)\n\n\n**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)\n\n\n**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUShort():\n\nUShort = toUShortOrNull() ?: numberFormatException(this)\n\n\n**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic\n\nfun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)\n\n\n**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toUInt():\n\nUInt = toUIntOrNull() ?: numberFormatException(this)\n\n\n**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun\n\nString.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(this)\n\n\n**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun String.toULong():\n\nULong = toULongOrNull() ?: numberFormatException(this)\n\n\n**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun\n\nString.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatException(this)\n\n\n\n**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n\n*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n\npublic fun\n\nString.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n\n**\n * Parses the string as an [UByte] number

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and returns the

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result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws  
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toUByteOrNull(radix: Int): UByte? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >  
    UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number  
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number  
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @throws  
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toUShortOrNull(radix: Int): UShort? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >  
    UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and  
returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @throws  
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and  
returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @throws  
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toUIntOrNull(radix: Int): UInt? {\n    checkRadix(radix)\n    val length = this.length\n    if (length == 0) return null\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n    val firstChar =  
    this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n    val limitForMaxRadix = 119304647u // limit / 36\n    val limitBeforeMul =  
    limitForMaxRadix\n    val uradix = radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit  
    = digitOf(this[i], radix)\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if  
    (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n                if (result >  
    limitBeforeMul) {\n                    return null\n                } else {\n                    return null\n                }\n            }\n            result *= uradix\n            val beforeAdding = result\n            result += digit.toUInt()\n            if (result <  
    beforeAdding)  
        return null // overflow has happened\n        }\n        return result\n}\n\n/**\n * Parses the string as an [ULong] number  
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number  
and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n @throws  
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n public fun  
String.toULongOrNull(radix: Int): ULong? {\n    checkRadix(radix)\n    val length = this.length\n    if (length ==  
    0) return null\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if  
    (firstChar < '0') {\n        if (length == 1 || firstChar  
    != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n    val limitForMaxRadix =  
    512409557603043100uL // limit / 36\n    val limitBeforeMul = limitForMaxRadix\n    val uradix =  
    radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n        result *= uradix\n        val beforeAdding =  
    result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n    return result\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n */
```

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*/\n\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\npackage kotlin\nimport\nkotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport\nkotlin.internal.RequireKotlinVersionKind\n/**\n * Marks the API that is dependent on the experimental unsigned\n types, including those types themselves.\n * Usages of such API will be reported as warnings unless an explicit\n opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the `opt-\n-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n * It's recommended to propagate the\n experimental status to the API that depends on unsigned types by annotating it with this annotation.\n */\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS,\n ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,\n TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class\nExperimentalUnsignedTypes\n"/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MathKt\")\n\npackage\nkotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n/**\n * Ratio of the\n circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin(\"1.2\")\npublic const val PI:\nDouble = 3.141592653589793\n/**\n * Base of the natural logarithms, approximately 2.71828.\n */\n@SinceKotlin(\"1.2\")\npublic const val E: Double = 2.718281828459045\n\n// region =====\nDouble Math =====\n\n/**\n * Computes the sine of the angle [x]\n given in radians.\n * *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Double):\nDouble\n/**\n * Computes the cosine of the angle [x] given in radians.\n * *\n * Special cases:\n * - `cos(NaN|+Inf|-\nInf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Double): Double\n/**\n * Computes the tangent\n of the angle [x] given in radians.\n * *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Double): Double\n/**\n * Computes the arc sine of the value\n [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n * *\n * Special cases:\n * -\n `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Double):\nDouble\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from\n `0.0` to `PI` radians.\n * *\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or\n x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Double): Double\n/**\n * Computes the arc\n tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n * *\n * Special\n cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan(x: Double): Double\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x,\n y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to\n `PI` radians.\n * *\n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI`\n for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y <\n+Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * -\n `atan2(y, 0.0)` is `PI/2` for\n `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`\n * - `atan2(-Inf, x)` is `-PI/2` for finite\n `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y:\nDouble, x: Double): Double\n/**\n * Computes the hyperbolic sine of the value [x].\n * *\n * Special cases:\n * -\n `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic\nexpect fun sinh(x: Double): Double\n/**\n * Computes the hyperbolic cosine of the value [x].\n * *\n * Special\n cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun
```

`cosh(x: Double): Double` Computes the hyperbolic cosine of the value [x]. Special cases: `tanh(NaN)` is `NaN` - `tanh(+Inf)` is `1.0` - `tanh(-Inf)` is `-1.0`

`fun tanh(x: Double): Double` Computes the inverse hyperbolic sine of the value [x]. The returned value is `y` such that `sinh(y) == x`. Special cases: `asinh(NaN)` is `NaN` - `asinh(+Inf)` is `+Inf` - `asinh(-Inf)` is `-Inf`

`fun asinh(x: Double): Double` Computes the inverse hyperbolic cosine of the value [x]. The returned value is positive `y` such that `cosh(y) == x`. Special cases: `acosh(NaN)` is `NaN` - `acosh(x)` is `NaN` when `x < 1` - `acosh(+Inf)` is `+Inf`

`fun acosh(x: Double): Double` Computes the inverse hyperbolic tangent of the value [x]. The returned value is `y` such that `tanh(y) == x`. Special cases: `tanh(NaN)` is `NaN` - `tanh(x)` is `NaN` when `x > 1` or `x < -1` - `tanh(1.0)` is `+Inf` - `tanh(-1.0)` is `-Inf`

`fun atanh(x: Double): Double` Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow. Special cases: returns `+Inf` if any of arguments is infinite - returns `NaN` if any of arguments is `NaN` and the other is not infinite

`fun hypot(x: Double, y: Double): Double` Computes the positive square root of the value [x]. Special cases: `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`

`fun sqrt(x: Double): Double` Computes Euler's number `e` raised to the power of the value [x]. Special cases: `exp(NaN)` is `NaN` - `exp(+Inf)` is `+Inf` - `exp(-Inf)` is `0.0`

`fun exp(x: Double): Double` Computes `exp(x) - 1`. This function can be implemented to produce more precise result for [x] near zero. Special cases: `expm1(NaN)` is `NaN` - `expm1(+Inf)` is `+Inf` - `expm1(-Inf)` is `-1.0`

`fun expm1(x: Double): Double` Computes the logarithm of the value [x] to the given [base]. Special cases: `log(x, b)` is `NaN` if either `x` or `b` are `NaN` - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0` - `log(+Inf, +Inf)` is `NaN` - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1` - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`

`fun log(x: Double, base: Double): Double` Computes the natural logarithm (base `E`) of the value [x]. Special cases: `ln(NaN)` is `NaN` - `ln(x)` is `NaN` when `x < 0.0` - `ln(+Inf)` is `+Inf` - `ln(0.0)` is `-Inf`

`fun ln(x: Double): Double` Computes the common logarithm (base 10) of the value [x]. @see [ln] function for special cases.

`fun log10(x: Double): Double` Computes the binary logarithm (base 2) of the value [x]. @see [ln] function for special cases.

`fun log2(x: Double): Double` Computes `ln(x + 1)`. This function can be implemented to produce more precise result for [x] near zero. Special cases: `ln1p(NaN)` is `NaN` - `ln1p(x)` is `NaN` where `x < -1.0` - `ln1p(-1.0)` is `-Inf` - `ln1p(+Inf)` is `+Inf`

`fun ln1p(x: Double): Double` Rounds the given value [x] to an integer towards positive infinity. @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer. Special cases: `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`fun ceil(x: Double): Double` Rounds the given value [x] to an integer towards negative infinity. @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer. Special cases: `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`fun floor(x: Double): Double` Rounds the given value [x] to an integer towards zero. @return the value [x] having its fractional part truncated. Special cases: `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`fun truncate(x: Double): Double` Rounds the given value [x] towards the closest integer with ties rounded towards even integer.



\* Special cases: `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.  
`public expect fun round(x: Double): Double` \* Returns the absolute value of the given value `[x]`.  
\* Special cases: `abs(NaN)` is `NaN`  
`@see absoluteValue` extension property for `[Double]`  
`public expect fun abs(x: Double): Double` \* Returns the sign of the given value `[x]`:  
- `-1.0` if the value is negative,  
- zero if the value is zero,  
- `1.0` if the value is positive  
\* Special case: `sign(NaN)` is `NaN`  
`public expect fun sign(x: Double): Double` \* Returns the smaller of two values.  
\* If either value is `NaN`, then the result is `NaN`.  
`public expect fun min(a: Double, b: Double): Double` \* Returns the greater of two values.  
\* If either value is `NaN`, then the result is `NaN`.  
`public expect fun max(a: Double, b: Double): Double` \* Returns the cube root of `[x]`. For any `x`, `cbrt(-x) == -cbrt(x)`; that is, the cube root of a negative value is the negative of the cube root of that value's magnitude. Special cases:  
\* Special cases:  
- If the argument is `NaN`, then the result is `NaN`.  
- If the argument is infinite, then the result is an infinity with the same sign as the argument.  
- If the argument is zero, then the result is a zero with the same sign as the argument.  
`WasExperimental(ExperimentalStdlibApi::class)`  
`public expect fun cbrt(x: Double): Double` // extensions  
\* Raises this value to the power `[x]`.  
\* Special cases:  
- `b.pow(0.0)` is `1.0`  
- `b.pow(1.0) == b`  
- `b.pow(NaN)` is `NaN`  
- `NaN.pow(x)` is `NaN` for `x != 0.0`  
- `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`  
- `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer  
`public expect fun Double.pow(x: Double): Double` \* Raises this value to the integer power `[n]`.  
\* See the other overload of `[pow]` for details.  
`public expect fun Double.pow(n: Int): Double` \* Returns the absolute value of this value.  
\* Special cases:  
- `NaN.absoluteValue` is `NaN`  
`@see abs` function  
`public expect val Double.absoluteValue: Double` \* Returns the sign of this value:  
- `-1.0` if the value is negative,  
- zero if the value is zero,  
- `1.0` if the value is positive  
\* Special case:  
- `NaN.sign` is `NaN`  
`public expect val Double.sign: Double` \* Returns this value with the sign bit same as of the `[sign]` value.  
\* If `[sign]` is `NaN` the sign of the result is undefined.  
`public expect fun Double.withSign(sign: Double): Double` \* Returns this value with the sign bit same as of the `[sign]` value.  
`public expect fun Double.withSign(sign: Int): Double` \* Returns the ulp (unit in the last place) of this value.  
\* An ulp is a positive distance between this value and the next nearest `[Double]` value larger in magnitude.  
\* Special Cases:  
- `NaN.ulp` is `NaN`  
- `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`  
- `0.0.ulp` is `Double.MIN_VALUE`  
`public expect val Double.ulp: Double` \* Returns the `[Double]` value nearest to this value in direction of positive infinity.  
`public expect fun Double.nextUp(): Double` \* Returns the `[Double]` value nearest to this value in direction of negative infinity.  
`public expect fun Double.nextDown(): Double` \* Returns the `[Double]` value nearest to this value in direction from this value towards  
the value `[to]`.  
\* Special cases:  
- `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`  
- `x.nextTowards(x) == x`  
`public expect fun Double.nextTowards(to: Double): Double` \* Rounds this `[Double]` value to the nearest integer and converts the result to `[Int]`.  
\* Ties are rounded towards positive infinity.  
\* Special cases:  
- `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`  
- `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`  
\* @throws `IllegalArgumentException` when this value is `NaN`  
`public expect fun Double.roundToInt(): Int` \* Rounds this `[Double]` value to the nearest integer and converts the result to `[Long]`.  
\* Ties are rounded towards positive infinity.  
\* Special cases:  
- `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`  
- `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`  
\* @throws `IllegalArgumentException`

when this value is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun Double.roundToLong(): Long\n\n// endregion\n\n\n// region ===== Float Math

=====\n\n/\*\* Computes the sine of the angle [x] given in radians.\n \* \n \* Special cases:\n \* - `sin(NaN|+Inf|-Inf)` is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun sin(x: Float): Float\n\n/\*\* Computes the cosine of the angle [x] given in radians.\n \* \n \* Special cases:\n \* - `cos(NaN|+Inf|-Inf)` is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun cos(x: Float): Float\n\n/\*\* Computes the tangent of the angle [x] given in radians.\n \* \n \* Special cases:\n \* - `tan(NaN|+Inf|-Inf)` is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun tan(x: Float): Float\n\n/\*\* \n \* Computes the arc sine of the value [x];\n \* the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n \* \n \* Special cases:\n \* - `asin(x)` is NaN, when  $abs(x) > 1$  or x is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun asin(x: Float): Float\n\n/\*\* \n \* Computes the arc cosine of the value [x];\n \* the returned value is an angle in the range from  $0.0$  to  $\pi$  radians.\n \* \n \* Special cases:\n \* - `acos(x)` is NaN, when  $abs(x) > 1$  or x is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun acos(x: Float): Float\n\n/\*\* \n \* Computes the arc tangent of the value [x];\n \* the returned value is an angle in the range from  $-\pi/2$  to  $\pi/2$  radians.\n \* \n \* Special cases:\n \* - `atan(NaN)` is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun atan(x: Float): Float\n\n/\*\* \n \* Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n \* to the rectangular coordinates `(x, y)` by computing the arc tangent of the value  $y / x$ ;\n \* the returned value is an angle in the range from  $-\pi$  to  $\pi$  radians.\n \* \n \* Special cases:\n \* - `atan2(0.0, 0.0)` is  $0.0$ \n \* - `atan2(0.0, x)` is  $0.0$  for  $x > 0$  and  $\pi$  for  $x < 0$ \n \* - `atan2(-0.0, x)` is  $-0.0$  for  $x > 0$  and  $-\pi$  for  $x < 0$ \n \* - `atan2(y, +Inf)` is  $0.0$  for  $0 < y < +Inf$  and  $-0.0$  for  $-Inf < y < 0$ \n \* - `atan2(y, -Inf)` is  $\pi$  for  $0 < y < +Inf$  and  $-\pi$  for  $-Inf < y < 0$ \n \* - `atan2(y, 0.0)` is  $\pi/2$  for  $y > 0$  and  $-\pi/2$  for  $y < 0$ \n \* - `atan2(+Inf, x)` is  $\pi/2$  for finite  $x$ \n \* - `atan2(-Inf, x)` is  $-\pi/2$  for finite  $x$ \n \* - `atan2(NaN, x)` and `atan2(y, NaN)` is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun atan2(y: Float, x: Float): Float\n\n/\*\* \n \* Computes the hyperbolic sine of the value [x].\n \* \n \* Special cases:\n \* - `sinh(NaN)` is NaN\n \* - `sinh(+Inf)` is  $+Inf$ \n \* - `sinh(-Inf)` is  $-Inf$ \n \*^@SinceKotlin("1.2")\npublic expect fun sinh(x: Float): Float\n\n/\*\* \n \* Computes the hyperbolic cosine of the value [x].\n \* \n \* Special cases:\n \* - `cosh(NaN)` is NaN\n \* - `cosh(+Inf|-Inf)` is  $+Inf$ \n \*^@SinceKotlin("1.2")\npublic expect fun cosh(x: Float): Float\n\n/\*\* \n \* Computes the hyperbolic tangent of the value [x].\n \* \n \* Special cases:\n \* - `tanh(NaN)` is NaN\n \* - `tanh(+Inf)` is  $1.0$ \n \* - `tanh(-Inf)` is  $-1.0$ \n \*^@SinceKotlin("1.2")\npublic expect fun tanh(x: Float): Float\n\n/\*\* \n \* Computes the inverse hyperbolic sine of the value [x].\n \* \n \* The returned value is `y` such that  $sinh(y) == x$ .\n \* \n \* Special cases:\n \* - `asinh(NaN)` is NaN\n \* - `asinh(+Inf)` is  $+Inf$ \n \* - `asinh(-Inf)` is  $-Inf$ \n \*^@SinceKotlin("1.2")\npublic expect fun asinh(x: Float): Float\n\n/\*\* \n \* Computes the inverse hyperbolic cosine of the value [x].\n \* \n \* The returned value is positive `y` such that  $cosh(y) == x$ .\n \* \n \* Special cases:\n \* - `acosh(NaN)` is NaN\n \* - `acosh(x)` is NaN when  $x < 1$ \n \* - `acosh(+Inf)` is  $+Inf$ \n \*^@SinceKotlin("1.2")\npublic expect fun acosh(x: Float): Float\n\n/\*\* \n \* Computes the inverse hyperbolic tangent of the value [x].\n \* \n \* The returned value is `y` such that  $tanh(y) == x$ .\n \* \n \* Special cases:\n \* - `tanh(NaN)` is NaN\n \* - `tanh(x)` is NaN when  $x > 1$  or  $x < -1$ \n \* - `tanh(1.0)` is  $+Inf$ \n \* - `tanh(-1.0)` is  $-Inf$ \n \*^@SinceKotlin("1.2")\npublic expect fun atanh(x: Float): Float\n\n/\*\* \n \* Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.\n \* \n \* Special cases:\n \* - returns  $+Inf$  if any of arguments is infinite\n \* - returns NaN if any of arguments is NaN and the other is not infinite\n \*^@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/\*\* \n \* Computes the positive square root of the value [x].\n \* \n \* Special cases:\n \* - `sqrt(x)` is NaN when  $x < 0$  or  $x$  is NaN\n \*^@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n/\*\* \n \* Computes Euler's number `e` raised to the power of the value [x].\n \* \n \* Special cases:\n \* - `exp(NaN)` is NaN\n \* - `exp(+Inf)` is  $+Inf$ \n \* - `exp(-Inf)` is  $0.0$ \n \*^@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n/\*\* \n \* Computes  $\exp(x) - 1$ .\n \* \n \* This function can be implemented to produce more precise result for [x] near zero.\n \* \n \* Special cases:\n \* - `expm1(NaN)` is NaN\n \* -

`expm1(+Inf)` is `+Inf` \n \* `expm1(-Inf)` is `-1.0` \n \* \n \* @see [exp] function.\n
 \n \* \n \* @SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n/\*\*\n \* Computes the logarithm of the value [x] to the given [base].\n \* \n \* Special cases:\n \* - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n \* - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n \* - `log(+Inf, +Inf)` is `NaN`\n \* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n \* - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n \* \n \* See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n \* \n \* @SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n/\*\*\n \* Computes the natural logarithm (base `E`) of the value [x].\n \* \n \* Special cases:\n \* - `ln(NaN)` is `NaN`\n \* - `ln(x)` is `NaN` when `x < 0.0`\n \* - `ln(+Inf)` is `+Inf`\n \* - `ln(0.0)` is `-Inf`\n \* \n \* @SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n\n/\*\*\n \* Computes the common logarithm (base 10) of the value [x].\n \* \n \* @see [ln] function for special cases.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n/\*\*\n \* Computes the binary logarithm (base 2) of the value [x].\n \* \n \* @see [ln] function for special cases.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n/\*\*\n \* Computes `ln(x + 1)`.\n \* \n \* This function can be implemented to produce more precise result for [x] near zero.\n \* \n \* Special cases:\n \* - `ln1p(NaN)` is `NaN`\n \* - `ln1p(x)` is `NaN` where `x < -1.0`\n \* - `ln1p(-1.0)` is `-Inf`\n \* - `ln1p(+Inf)` is `+Inf`\n \* \n \* @see [ln] function\n \* @see [expm1] function\n \* \n \* @SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] to an integer towards positive infinity.\n \* \n \* @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n \* \n \* Special cases:\n \* - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] to an integer towards negative infinity.\n \* \n \* @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n \* \n \* Special cases:\n \* - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun floor(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] to an integer towards zero.\n \* \n \* @return the value [x] having its fractional part truncated.\n \* \n \* Special cases:\n \* - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun truncate(x: Float): Float\n\n/\*\*\n \* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n \* \n \* Special cases:\n \* - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun round(x: Float): Float\n\n/\*\*\n \* Returns the absolute value of the given value [x].\n \* \n \* Special cases:\n \* - `abs(NaN)` is `NaN`\n \* \n \* @see absoluteValue extension property for [Float]\n \* \n \* @SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n\n/\*\*\n \* Returns the sign of the given value [x]:\n \* - `-1.0` if the value is negative,\n \* - zero if the value is zero,\n \* - `1.0` if the value is positive\n \* \n \* Special case:\n \* - `sign(NaN)` is `NaN`\n \* \n \* @SinceKotlin("1.2")\npublic expect fun sign(x: Float): Float\n\n/\*\*\n \* Returns the smaller of two values.\n \* \n \* If either value is `NaN`, then the result is `NaN`.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun min(a: Float, b: Float): Float\n\n/\*\*\n \* Returns the greater of two values.\n \* \n \* If either value is `NaN`, then the result is `NaN`.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun max(a: Float, b: Float): Float\n\n/\*\*\n \* Returns the cube root of [x]. For any `x`, `cbrt(-x) == -cbrt(x)`; that is, the cube root of a negative value is the negative of the cube root of that value's magnitude. Special cases:\n \* \n \* Special cases:\n \* - If the argument is `NaN`, then the result is `NaN`.\n \* - If the argument is infinite, then the result is an infinity with the same sign as the argument.\n \* - If the argument is zero, then the result is a zero with the same sign as the argument.\n \* \n \* @SinceKotlin("1.8")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun cbrt(x: Float): Float\n\n/\*\*\n \* Raises this value to the power [x].\n \* \n \* Special cases:\n \* - `b.pow(0.0)` is `1.0`\n \* - `b.pow(1.0) == b`\n \* - `b.pow(NaN)` is `NaN`\n \* - `NaN.pow(x)` is `NaN` for `x != 0.0`\n \* - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n \* - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n \* \n \* @SinceKotlin("1.2")\npublic expect fun Float.pow(x: Float): Float\n\n/\*\*\n \* Raises this value to the integer power [n].\n \* \n \* See the other overload of [pow] for details.\n \* \n \* @SinceKotlin("1.2")\npublic expect fun Float.pow(n: Int): Float\n\n/\*\*\n \* Returns the absolute value of this

value.  
 \* Special cases:  
 - NaN.absoluteValue` is NaN`  
 @see abs function  
 @SinceKotlin("1.2")\npublic expect val Float.absoluteValue: Float  
 \* Returns the sign of this value:  
 - -1.0` if the value is negative,  
 - zero if the value is zero,  
 - 1.0` if the value is positive  
 \* Special case:  
 - NaN.sign` is NaN`  
 @SinceKotlin("1.2")\npublic expect val Float.sign: Float  
 \* Returns this value with the sign bit same as of the [sign] value.  
 \* If [sign] is NaN` the sign of the result is undefined.  
 @SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Float): Float  
 \* Returns this value with the sign bit same as of the [sign] value.  
 @SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Int): Float  
 \* Rounds this [Float] value to the nearest integer and converts the result to [Int].  
 \* Ties are rounded towards positive infinity.  
 \* Special cases:  
 - x.roundToInt() == Int.MAX\_VALUE` when x > Int.MAX\_VALUE  
 - x.roundToInt() == Int.MIN\_VALUE` when x < Int.MIN\_VALUE  
 \* @throws IllegalArgumentException when this value is NaN`  
 @SinceKotlin("1.2")\npublic expect fun Float.roundToInt(): Int  
 \* Rounds this [Float] value to the nearest integer and converts the result to [Long].  
 \* Ties are rounded towards positive infinity.  
 \* Special cases:  
 - x.roundToLong() == Long.MAX\_VALUE` when x > Long.MAX\_VALUE  
 - x.roundToLong() == Long.MIN\_VALUE` when x < Long.MIN\_VALUE  
 \* @throws IllegalArgumentException when this value is NaN`  
 @SinceKotlin("1.2")\npublic expect fun Float.roundToLong(): Long\n// endregion\n// region ===== Integer Math =====  
 \* Returns the absolute value of the given value [n].  
 \* Special cases:  
 - abs(Int.MIN\_VALUE)` is Int.MIN\_VALUE` due to an overflow  
 \* @see absoluteValue extension property for [Int]  
 @SinceKotlin("1.2")\npublic expect fun abs(n: Int): Int  
 \* Returns the smaller of two values.  
 @SinceKotlin("1.2")\npublic expect fun min(a: Int, b: Int): Int  
 \* Returns the greater of two values.  
 @SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int  
 \* Returns the absolute value of this value.  
 \* Special cases:  
 - Int.MIN\_VALUE.absoluteValue` is Int.MIN\_VALUE` due to an overflow  
 \* @see abs function  
 @SinceKotlin("1.2")\npublic expect val Int.absoluteValue: Int  
 \* Returns the sign of this value:  
 - -1` if the value is negative,  
 - 0` if the value is zero,  
 - 1` if the value is positive  
 @SinceKotlin("1.2")\npublic expect val Int.sign: Int  
 \* Returns the absolute value of the given value [n].  
 \* Special cases:  
 - abs(Long.MIN\_VALUE)` is Long.MIN\_VALUE` due to an overflow  
 \* @see absoluteValue extension property for [Long]  
 @SinceKotlin("1.2")\npublic expect fun abs(n: Long): Long  
 \* Returns the smaller of two values.  
 @SinceKotlin("1.2")\npublic expect fun min(a: Long, b: Long): Long  
 \* Returns the greater of two values.  
 @SinceKotlin("1.2")\npublic expect fun max(a: Long, b: Long): Long  
 \* Returns the absolute value of this value.  
 \* Special cases:  
 - Long.MIN\_VALUE.absoluteValue` is Long.MIN\_VALUE` due to an overflow  
 \* @see abs function  
 @SinceKotlin("1.2")\npublic expect val Long.absoluteValue: Long  
 \* Returns the sign of this value:  
 - -1` if the value is negative,  
 - 0` if the value is zero,  
 - 1` if the value is positive  
 @SinceKotlin("1.2")\npublic expect val Long.sign: Int\n// endregion\n",/>\n
 \* Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.  
 \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
 @package kotlin.js  
 \* Exposes the JavaScript [Math] object([https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global\\_Objects/Math](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math)) to Kotlin.  
 @PublishedApi\n@JsName("Math")\ninternal external object JsMath {\n val LN2: Double\n fun abs(value: Double): Double\n fun acos(value: Double): Double\n fun asin(value: Double): Double\n fun atan(value: Double): Double\n fun atan2(y: Double, x: Double): Double\n fun cos(value: Double): Double\n fun sin(value: Double): Double\n fun exp(value: Double): Double\n fun max(vararg values: Int): Int\n fun max(vararg values: Float): Float\n fun max(vararg values: Double): Double\n fun min(vararg values: Int): Int\n fun min(vararg values: Float): Float\n fun min(vararg values: Double): Double\n fun sqrt(value: Double): Double\n fun tan(value: Double): Double

```

fun log(value: Double): Double\n fun cbrt(value: Double): Double\n fun pow(base: Double, exp: Double):
Double\n fun round(value: Number): Double\n fun floor(value: Number): Double\n fun ceil(value: Number):
Double\n\n\ninternal const val defineTaylorNBound = \\\"\\\"\\n var epsilon = 2.220446049250313E-16;\n var
taylor_2_bound = Math.sqrt(epsilon);\n var taylor_n_bound = Math.sqrt(taylor_2_bound);\n\\\"\\\"\\n\n\ninternal const
val defineUpperTaylor2Bound = \\\"\\\"\\n $defineTaylorNBound\n var upper_taylor_2_bound
= 1/taylor_2_bound;\n\\\"\\\"\\n\n\ninternal const val defineUpperTaylorNBound = \\\"\\\"\\n
$defineUpperTaylor2Bound\n var upper_taylor_n_bound =
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,GAAa,GAAl,GAAE,C;;GAdV,mD;EAoBpC,MAA6B,CAAtB,IAAsB,CAAjB,SAAiB,CAAP,MAAO,YAAU,CAAA,E;IACrC,OAAO,IAAW,CAAN,KAAM,IAAG,CAAE,IAAG,IAAU,CAAL,IAAK,IAAG,C;GADZ,uD;EAM7B,MAAiC,CAA1B,IAA0B,CAArB,SAAqB,CAAX,UAAW,YAAU,CAAA,E;IACzC,OAAO,IAAW,CAAN,KAAM,GAAE,C;GADW,kD;EAMjC,MAA4B,CAArB,IAAqB,CAAhB,SAAgB,CAAN,KAAM,YAAU,CAAA,E;IACpC,OAAuB,CAAf,IAAU,CAAL,IAAK,GAAE,CAAG,KAAG,C;GADA;;;I;EAS5B,MAAiC,CAA1B,IAA0B,CAArB,SAAqB,CAAX,UAAW,YAAU,CAACC,KAAD,E;IACzC,OAAQ,IAAW,CAAN,KAAM,IAAG,KAH,CAAS,KAAO,IAAI,IAAU,CAAL,IAAK,IAAG,KAH,CAAS,I;GAD3B;;;I;EASjC,MAAoC,CAA7B,IAA6B,CAAxB,SAAwB,CAAd,aAAc,YAAU,CAACA,KAAD,E;IAC5C,OAAQ,IAAW,CAAN,KAAM,IAAG,KAH,CAAS,KAAO,IAAI,IAAU,CAAL,IAAK,IAAG,KAH,CAAS,I;GADxB;;;I;EASpC,MAA+B,CAAxB,IAAwB,CAAnB,SAAmB,CAAT,QAAS,YAAU,CAACA,KAAD,E;IACvC,OAAO,IAAY,CAAP,OAAO,CAAC,KAAD,CAAQ,GAAE,C;GADA;;;I;EAS/B,MAAsC,CAA/B,IAA+B,CAA1B,SAA0B,CAAhB,eAAgB,YAAU,CAACA,KAAD,E;IAC9C,OAAO,IAAY,CAAP,OAAO,CAAC,KAAD,CAAQ,IAAG,C;GADM;;;I;EAStC,MAAkC,CAA3B,IAA2B,CAAtB,SAAsB,CAAZ,WAAY,YAAU,CAACA,KAAD,E;IAC1C,OAAO,IAAY,CAAP,OAAO,CAAC,KAAD,CAAQ,GAAE,C;GADG;;;I;EASiC,MAAyC,CAAIC,IAAkC,CAA7B,SAA6B,CAAnB,kBAAmB,YAAU,CAACA,KAAD,E;IACjD,OAAO,IAAY,CAAP,OAAO,CAAC,KAAD,CAAQ,IAAG,C;GADS;;;I;EAWzC,MAA8B,CAAvB,IAAuB,CAAIB,SAAkB,CAAR,OAAQ,YAAU,CAACA,KAAD,E;IACtC,IAAI,IAAe,CAAV,UAAU,CAAC,KAAD,CAAnB,C,CAA4B;A,MAC1B,OAAO,C;;IAGT,IAAIC,UAAU,IAAe,CAAV,UAAU,E;IAC7B,IAAIC,WAAW,KAAgB,CAAV,UAAU,E;IAC/B,IAAI,OAAQ,IAAG,CAAC,QAaHb,C,CAA0B;A,MACxB,OAAO,E;;IAET,IAAI,CAAC,OAAQ,IAAG,QAaHb,C,CAA0B;A,MACxB,OAAO,C;;IAIT,IAAI,IAAa,CAAR,QAAQ,CAAC,KAAD,CAAkB,CAAV,UAAU,EAAnC,C,CAAUc;A,MACrC,OAAO,E;WACF;A,MACL,OAAO,C;;GAlBmB,wD;EAwB9B,MAA6B,CAAtB,IAAsB,CAAjB,SAAiB,CAAP,MAAO,YAAU,CAAA,E;IACrC,IAAI,IAAe,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAAnB,C,CAA4C;A,MAC1C,OAAO,MAAP,CAAc,IAAd,CAAmB,S;WACd;A,MACL,OAAO,IAAQ,CAAH,GAAG,EAAM,CAAH,GAAG,CAAC,MAAD,CAAQ,IAAR,CAAa,GAAb,C;;GAlJ;;;I;EAe7B,MAA0B,CAAnB,IAAmB,CAAd,SAAc,CAAJ,GAAl,YAAU,CAACF,KAAD,E;IAGIC,QAAIG,MAAM,IAAW,CAAN,KAAM,KAAl,E;IACzB,IAAIC,MAAM,IAAW,CAAN,KAAM,GAAE,K;IACvB,IAAIC,MAAM,IAAU,CAAL,IAAK,KAAl,E;IACxB,IAAIC,MAAM,IAAU,CAAL,IAAK,GAAE,K;IAEtB,IAAIC,MAAM,KAAY,CAAN,KAAM,KAAl,E;IAC1B,IAAIC,MAAM,KAAY,CAAN,KAAM,GAAE,K;IACxB,IAAIC,MAAM,KAAY,CAAL,IAAK,KAAl,E;IACzB,IAAIC,MAAM,KAAY,CAAL,IAAK,GAAE,K;IAEvB,IAAIC,MAAM,CAAV,EAaAc,MAAM,CAAnB,EAAsBC,MAAM,CAA5B,EAa+BC,MAAM,C;IACrC,GAAl,IAAG,GAAl,GAAE,G;IACb,GAAl,IAAG,GAAl,KAAl,E;IACf,GAAl,IAAG,K;IACP,GAAl,IAAG,GAAl,GAAE,G;IACb,GAAl,IAAG,GAAl,KAAl,E;IACf,GAAl,IAAG,K;IACP,GAAl,IAAG,GAAl,GAAE,G;IACb,GAAl,IAAG,K;IACP,GAAl,IAAG,GAAl,KAAl,E;IACf,GAAl,IAAG,K;IACP,GAAl,IAAG,GAAl,GAAE,G;IACb,GAAl,IAAG,K;IACP,OAAO,MAAoB,CAAb,IAAa,CAAR,QAAQ,CAAE,GAAl,IAAG,EAAl,GAAE,GAaf,EAaqB,GAAl,IAAG,EAAl,GAAE,GAAlC,C;GAzBH;;;I;EAkC1B,MAA+B,CAAxB,IAAwB,CAAnB,SAAmB,CAAT,QAAS,YAAU,CAACd,KAAD,E;IACvC,OAAO,IAAQ,CAAH,GAAG,CAAC,KAAY,CAAN,MAAM,EAAb,C;GADc;;;I;EAU/B,MAA+B,CAAxB,IAAwB,CAAnB,SAAmB,CAAT,QAAS,YAAU,CAACA,KAAD,E;IACvC,IAAI,IAAW,CAAN,MAAM,EAaf,C,CAAmB;A,MACjB,OAAO,MAAP,CAAc,IAAd,CAAmB,I;WACd,IAAI,KAAY,CAAN,MAAM,EAaHb,C,CAAoB;A,MACzB,OAAO,MAAP,CAAc,IAAd,CAAmB,I;;IAGrB,IAAI,IAAe,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAAnB,C,CAA4C;A,MAC1C,OAAO,KAAY,CAAL,KAAl,EAAG,GAAE,MAAF,CAAS,IAAT,CAAc,SAAd,GAA0B,MAA1B,CAAiC,IAAjC,CAAsC,I;WACtD,IAAI,KAAGB,CAAV,UAAU,CAAC,MAAD,CAAQ,IAAR,CAAa,SAAb,CAApB,C,CAA6C;A,MACID,OAAO,IAAU,CAAL,KAAl,EAAG,GAAE,MAAF,CAAS,IAAT,CAAc,SAAd,GAA0B,MAA1B,CAAiC,IAAjC,CAAsC,I;;IAG5D,IAAI,IAAe,CAAV,UAAU,EAAnB,C,CAAuB;A,MACrB,IAAI,KAAGB,CAAV,UAAU,EAAPb,C,CAAwB;A,QACtB,OAAO,IAAW,CAAN,MAAM,EAAW,CAAR,QAAQ,CAAC,KAAY,CAAN,MAAM,EAAb,C;aACxB;A,QACL,OAAO,IAAW,CAAN,MAAM,EAAW,CAAR,QAAQ,CAAC,KAAD,CAAc,CAAN,MAAM,E;;WAExC,IAAI,KAAGB,CAAV,UAAU,EAAPb,C,CAAwB;A,MAC7B,OAAO,IAAa,CAAR,QAAQ,CAAC,KAAY,CAAN,MAAM,EAAb,CAAuB,CAAN,MAAM,E;;;IAI7C,IAAI,IAAa,CAAR,QAAQ,CAAC,MAAD,CAAQ,IAAR,CAAa,WAAb,CAA0B,IACvC,KAAC,CAAR,QAAQ,CAAC,MAAD,CAAQ,IAAR,CAAa,WAAb,CADIB,C,CAC6C;A,MAC3C,OAAO,MAAsB,CAAf,IAAe,CAAV,UAAU,CAAC,IAAa,CAAR,QAAQ,EAAG,GAAE,KA



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kttBG,MoBlttBH,EpBkttBS,KoBlttBT,CpBkttBe,MoBlttBf,C;QpBmttBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MoBhutBA,iB;MpBgutBA,iB,2BAAA,E;QAQI,WoBlutBO,MAAO,epBkutBG,MoBlutBH,EpBkutBS,KoBlutBT,CpBkutBe,MoBlutBf,C;QpBmutBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MoBhvtBA,iB;MpBgvtBA,iB,2BAAA,E;QAQI,WoBlvtBO,MAAO,epBkvtBG,MoBlvtBH,EpBkvtBS,KoBlvtBT,CpBkvtBe,MoBlvtBf,C;QpBmvtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MoBhwtBA,iB;MpBgtwBA,iB,2BAAA,E;QAQI,WoBlwtBO,MAAO,epBkwtBG,MoBlwtBH,EpBkwtBS,KoBlwtBT,CpBkwtBe,MoBlwtBf,C;QpBmwtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MoBhxtBA,iB;MpBgxtBA,iB,2BAAA,E;QAQI,WoBlxtBO,MAAO,epBkxtBG,MoBlxtBH,EpBkxtBS,KoBlxtBT,CpBkxtBe,MoBlxtBf,C;QpBmxtBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MoBhztBA,iB;MpBgztBA,iB,2BAAA,E;QAQI,WoBlztBO,MAAO,epBkztBG,MoBlztBH,EpBkztBS,KoBlztBT,CpBkztBe,MoBlztBf,C;QpBmztBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAMb,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,uBAAA,E;MAAA,gE;MAAA,oC;MoBh0tBA,iB;MpBg0tBA,iB,2BAAA,E;QAQI,WoBl0tBO,MAAO,epBk0tBG,MoBl0tBH,EpBk0tBS,KoBl0tBT,CpBk0tBe,MoBl0tBf,C;QpBm0tBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAIB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,EA AV,EAAMb,kBAAM,CAAN,EAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;mBAgBA,C,0EAAA,E;MAQ8D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAGvN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAC,OAAd,EA AuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;qBAGX,C,0EAAA,E;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;qBAGX,C,0EAAA,E;MAQyD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;qBAGX,C,0EAAA,E;MAQuD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAc,I;MAGlN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAGB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,

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B,MAA1B,C;;MAAtC,a;K;mCASO,C,WAAA,E;MAAA,8B;MAAS,uB;K;uGACW,CAAA,E;MAAQ,wBAAY,I;K  
;wDAC3C,CAAA,E;MAAkC,OAAy,KAAZ,WAAY,U;K;+DAC9C,C,OAAA,E;MAAgD,OAAy,KAAZ,WAAY,g  
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A,E;MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAGC,OAAO,E;MACvC,OpC66BO,mBoC76BA,WpC66B  
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CowBpB,C;K;;sBoCj6BnB,C,SAAA,E;MAMI,4C;K;mCA2BO,C,WAAA,E;MAAA,8B;MAAS,uB;K;uGACW,CA  
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C,QAAA,E;MAKI,eAAe,IAAf,CAAoB,Q;MACpB,gBAAc,Q;MACd,OAAO,Q;K;iEAGX,CAAA,E;MAA+B,iEA  
Ac,IAAd,C;K;iEAC/B,CAAA,E;MAAkC,iEAAc,IAAd,C;K;+DACIC,C,KAAA,E;MAA4C,+DAAY,IAAZ,EAkB  
,KAAIB,C;K;;mEAIb5C,C,YAAA,E;MAAA,wE;MAAsC,2CAAK,KAAAL,CAAW,GAAX,EAAGB,KAAhB,CAAs  
B,KAAtB,C;MAAtC,Y;K;gDAsBJ,CAAA,E;MACsE,6B;K;4EACIE,C,OAAA,E;MAAmD,kCAAc,OAAd,C;K;0E  
AEnD,C,OAAA,E;MAAiD,gCAAY,OAAZ,C;K;;kDAIrD,CAAA,E;MACY,KAAAR,OAAQ,Q;K;yEAOQ,C,uBAA  
A,E;MAAA,sD;MAAS,6B;K;gGACb,C,OAAA,E;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;4FAC9C,CAAA,E;M  
AC4B,KAAxB,uBAAwB,Q;K;qGAG5B,C,OAAA,E;MAAsD,sDAAY,OAAZ,C;K;gGAI3C,C,qBAAA,E;MAAA,k  
D;K;qHACH,CAAA,E;MAAkC,OAAC,KAAAd,qBAAc,U;K;kHACHd,CAAA,E;MAAyB,OAAC,KAAAd,qBAAc,OA  
Ad,CAAqB,G;K;oHAC9C,CAAA,E;MAAsC,KAAAd,qBAAc,S;K;;+FAL9C,CAAA,E;MACI,oBAA4B,6BAAR,OA  
AQ,W;MAC5B,6G;K;mGAOJ,C,OAAA,E;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QAC4B,KAAxB,uB  
AAwB,cAAO,OAAP,C;QACxB,OAAO,I;;MAEX,OAAO,K;K;6IAGY,CAAA,E;MAAQ,oCAAwB,I;K;qGAEvD,  
CAAA,E;MAA8D,KAAxB,uBAAwB,iB;K;;mGA9B1E,CAAA,E;MACI,IAAI,4BAAJ,C;QACI,6F;;MA+BJ,OAA  
O,mC;K;2DAKf,C,IAAA,E;MAEyB,Q;MADrB,qB;MACqB,OAAA,I/E6RmE,CAAR,OAAQ,W;M+E7RxF,OAAq  
B,cAArB,C;QAAqB,wB;QAAf,iB/E8MsD,G;Q+E9MjD,mB/E2NiD,K;Q+E1NxD,iBAAI,GA AJ,EAAS,KAA T,C;;

K;2EAQc,C,uBAAA,E;MAAA,sD;MAAS,oC;K;kGACf,C,OAAA,E;MAAwC,MAAM,qCAA8B,gCAA9B,C;K;8FAC9C,CAAA,E;MAA+C,KAxB,uBAAwB,Q;K;uGAE/C,C,OAAA,E;MAASD,wDAAc,OAAc,C;K;kGAI3C,C,qBAAA,E;MAAA,kD;K;uHACH,CAAA,E;MAAKC,OAAc,KAAd,qBAAc,U;K;oHACHD,CAAA,E;MAAYB,OAAc,KAAd,qBAAc,OAAc,CAAqB,K;K;sHAC9C,CAAA,E;MAAsC,KAAd,qBAAc,S;K;;iGAL9C,CAAA,E;MACI,oBAA4B,6BAAR,OAAQ,W;MAC5B,+G;K;+IAOmB,CAAA,E;MAAQ,oCAAwB,I;K;uGAEvD,CAAA,E;MAA8D,KAAxB,uBAAwB,iB;K;;qGAnB1E,CAAA,E;MACI,IAAI,8BAAJ,C;QACI,iG;;MAoBJ,OAAO,qC;K;yDAGf,C,GA AA,E;MACI,qB;MACA,WAAMB,KAAR,OAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAAR,CAAc,G;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAZ,CAAkB,K;UACIB,IAAK,S;UACL,OAAO,K;;MAGf,OAAO,I;K;2DAIX,CAAA,E;K;;+BC3I+C,CAAA,E;MAAiC,oC;K;mDAEhF,C,KAAA,E;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAGB,KAAhB,C;K;qDAGvB,CAAA,E;MAG+B,OAAA,mCAAY,2BAAkB,IAAIB,C;K;;sBCbT,C,KAAA,E;MACIC,iC;MADyF,8B;MAAIC,4B;MAKvD,4BAAkC,K;K;gCAJIC,CAAA,E;MAAA,mC;MAC8C,gBAAtB,iBAAMB,CAAnB,C;MpEiFIB,SoEjF+C,wBAAGB,I;MAAjE,epEkFG,S;K;;4CoEnFP,CAAA,E;MAAA,0C;QAAA,yB;;MAAA,mC;K;yCAsBA,CAAA,E;MAEI,qB;MACA,4BAaA,I;MACb,OAAW,YAAO,CAAX,GAAC,IAAd,qCAAwB,O;K;8CAGnC,CAAA,E;K;0DAGA,C,WAAA,E;K;0FAG8B,CAAA,E;MAAQ,4BAAM,M;K;+CAC5C,C,KAAA,E;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;+CACzC,C,cAAA,E;MAIW,IAAa,I;MAHpB,qB;MACA,0BAAW,KAAX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAA,OpE0BjB,SoE1BI,2D;K;6CAGX,C,OAAA,E;MACI,qB;MACKB,KAAZ,eAAY,MAAK,OAAL,C;MACIB,qC;MACA,OAAO,I;K;+CAGX,C,cAAA,E;MACI,qB;MACKB,KAAZ,eAAY,QAAO,mCAAoB,KAAPB,CAAP,EAAmC,CAAnC,EAAsC,OAAtC,C;MACIB,qC;K;4DAGJ,C,MAAA,E;MACI,oBAaE,I;MACf,KAAM,eAAN,UAA2B,YAAO,MAAP,I;MAC3B,OAAO,Q;K;kDAGX,C,QAAA,E;MACI,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OA AO,K;MAE/B,aAAa,8BAaE,QAAf,CAAwB,IAAxB,C;MjEqvDJ,gB;MADb,YAAY,C;MACC,OiEpvDT,QjEovDS,W;MAAb,OAAa,cAAb,C;QAAa,sB;QiEnvDL,qBAAM,SjEmvDY,oBAAMB,cAAnB,EAAMB,sBAAnB,UiEnvDZ,IAAN,IjEmvD+C,I;;MiEjvDnD,qC;MACA,OAAO,I;K;kDAGX,C,eAAA,E;MACI,qB;MACA,mCAAoB,KAAPB,C;MAEA,IAAI,eAAS,IAAb,C;QAAMB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,WAA6B,KAAZ,eAAY,QAAO,KAAP,C;MAC7B,oBAAO,QAAP,C;MAEA,aAAa,8BAaE,IAAf,CAAoB,MAAPB,C;MpEoDjB,mBAAc,CAAd,YoEnDW,IpEmDX,CoEnDgB,MpEmDhB,Y;QoEIDQ,qBAAM,SpEmDH,OoEnDG,IAAN,IAA4B,KpEmDzB,OoEnDyB,C;;MAGhC,qC;MACA,OAAO,I;K;oDAGX,C,KAAA,E;MACI,qB;MACA,0BAAW,KAAX,C;MACA,qC;MACA,OAAW,UAAAS,sBAAb,GACe,KAAZ,eAAY,MADf,GAGe,KAAZ,eAAY,QAAO,KAAP,EAAC,CAAd,CAAIB,CAAMC,CAAnC,C;K;gDAGR,C,OAAA,E;MAEKb,Q;MADd,qB;MACc,2B;MAAd,mD;QACI,IAAI,4BAAM,KAAN,GAAgB,OAAb,CAAJ,C;UACsB,KAAZ,eAAY,QAAO,KAAP,EAAC,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K;K;uDAGX,C,kBAAA,E;MACI,qB;MACA,qC;MACKB,KAAZ,eAAY,QAAO,SAAP,EAAb,UAAU,SAAV,IAAIB,C;K;yCAGtB,CAAA,E;MACI,qB;MACA,uBICHuC,E;MkCiIvC,qC;K;iDAIJ,C,OAAA,E;MAA+C,OAAM,aAAN,eAAM,EAAQ,OAAR,C;K;qDAErD,C,OAAA,E;MAAmD,OAAM,iBAAN,eAAM,EAAQ,OAAR,C;K;4CAEzD,CAAA,E;MAA0B,0BAAc,eAAd,C;K;mDAE1B,C,KAAA,E;MAGe,UAGL,MAHK,EAMO,M;MAPIB,IAAI,MAAM,MAAN,QAAa,IAAjB,C;QACI,OAAO,2D;;MAGc,gBAAxB,eAAK,SAAL,IAAK,gBAAL,yB;MtEmbL,UAAU,SAAV,EsEnbsC,KtEmbtC,EAD+F,CAC/F,EADoH,CACpH,YADuI,MACvI,C;MsEjBI,IAAI,MAAM,MAAN,QAAa,IAAjB,C;QACI,WAAM,IAAN,IAAc,6E;;MAGIB,OAAO,K;K;2CAGX,CAAA,E;MACI,OAAO,EAAe,CAAN,KAAM,WAAK,eAAL,C;K;kDAI1B,CAAA,E;MACI,SAAI,oBAAJ,C;QAAGB,MAAM,oC;K;wDAG1B,C,KAAA,E;MACI,oCAAa,uCAAYB,IAAZB,C;MADoB,Y;K;iEAIrC,C,KAAA,E;MACI,oCAAa,wCAA0B,IAA1B,C;MAD6B,Y;K;;2BA9J9C,C,KAAA,E;MAAA,mD;MAG8B,sBlCZa,EkCYb,C;MAH9B,Y;K;6BAKA,C,sBAAA,E;MAAA,mD;MAIKD,sBICIBP,EkCkBO,C;MAJID,Y;K;6BAMA,C,eAAA,E;MAAA,mD;MAGqD,sBhETa,YgESR,QhETQ,CgESb,C;MAHrD,Y;K;0BCzBJ,C,iBAAA,E;MACI,IAAI,6BAAJ,C;QACU,KAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAY,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,eAAW,UAAAX,CAA5D,C;;K;iCAMiB,C,kBAAA,E;MAAA,iB,IAAA,E;QAAGB,OAAA,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;4BAFpD,C,iBAAA,E;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gC;QACX,KAAAY,MAAK,UAAAL,C;;QAEIB,UAAU,KAAY,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,UAA5D,C;;K;4BAIR,C,qCAA,E;MACI,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACI,UAAU,KAAY,EAAwC,SAAxC,



EAAmD,UAAU,CAAV,IAAnD,EAAGe,UAAhE,C;;K;6BAMiB,C,IAAA,E;MAAgB,OAAE,iBAAF,CAAE,EAAU ,CAAV,C;K;sBAF3C,C,KAAA,E;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAY,MAAK,UAAAL,C;;QA EIB,UAAU,KAAY,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,cAA5D,C;;K;;+CAaa,C,IAAA,E;MA AoB,QAAC,IAAM,CAAP,KAAa,IAAM,CAAnB,K;K;wCARzC,CAAA,E;MACI,sC;QAAiC,OAAjC,yB;;MACA, 4BAA4B,K;MAE5B,YAAy,E;MAGZ,iBAAc,CAAd,UAAsB,GAAtB,U;QAAiC,KAAY,MAAK,KAAL,C;MAC7 C,iBAAiB,kC;MACX,KAAY,MAAK,UAAAL,C;MACIB,mBAAc,CAAd,YAAsB,KAAtB,CAA4B,MAA5B,Y;QAC I,QAAQ,MAAM,UAAQ,CAAR,IAAN,C;QACR,QAAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OA Ac,IAAM,CAAPB,KAA0B,KAAK,CAAnC,C;UAAsC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;sBAIX, C,sCAAA,E;MACI,aAAa,gBAAMb,KAAAnB,CAAYb,MAAZb,O;MACb,aAAa,YAAU,KAAY,EAAiB,MAAjB,E AAYb,KAAzB,EAAgC,YAAhC,EAA8C,UAA9C,C;MACb,IAAI,WAAW,KAAf,C;QACI,aAAU,KAAY,OAAiB, YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;;K;wBAIID,C,qCAAA,E;MAEI,IAAI,UAAAS,GAAb,C ;QACI,OAAO,K;;MAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAAhB,I;MACb,WAAW,YAAU,KAAY,E AAIb,MAAjB,EAAyB,KAAzB,EAAgC,MAAhC,EAAwC,UAAxC,C;MACX,YAAy,YAAU,KAAY,EAAiB,MA Ajb,EAAyB,SAAS,CAAT,IAAZb,EAAqC,GAARc,EAA0C,UAA1C,C;MAEZ,aAAiB,SAAS,MAAb,GAaqB,KA ArB,GAAGC,M;MAG7C,gBAAGB,K;MACb,iBAAiB,SAAS,CAAT,I;MACjB,aAAU,KAAY,OAAiB,GAajB,M; QAEQ,iBAaA,MAAb,IAAuB,cAAc,GAARc,C;UACI,gBAAGB,KAAK,SAAL,C;UACHb,iBAAiB,MAAM,UAAAN, C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAAnB,CAAX,IAA6C,CAAjD,C;YACI,OAAO,CAAP,IAAY,S;Y ACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAaA,MAAb,C;UACI,OAAO,CAAP,IAAY,KAAK,S AAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM,UAAAN,C;UACZ,+B;;MAMZ,OAAO,M;K;oCCrGX,C,S AAA,E;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAakB,OAAO,C;MACzB,aAAa,C;MACb,wBAAGB,SAAhB ,gB;QAAGB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,I9BFiC,MAAa,Y8BEnC,O9BFmC,C8BE9C,C;YA AwD,iCAAhC,OAAgC,C;iBAExD,uC;YAAmC,2BAAR,OAAQ,C;eACnC,wC;YAAmC,2BAAR,OAAQ,C;eACn C,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,OAAQ,C;;YAEA,kBAAR,OAAQ,C;;QATvC,wB; QAYA,SAAS,MAAK,MAAL,QAAC,WAAAd,I;MAEb,OAAO,M;K;;wCCTP,CAAA,E;MAAA,2C;K;oEACI,C,cA AA,E;MAA2D,sBAAU,MAAV,C;K;yEAE3D,C,KAAA,E;MAA6C,Q;MAAA,wEAAqB,C;K;;oDAHtE,CAAA,E; MAAA,kD;QAAA,iC;;MAAA,2C;K;;MC0BA,iC;MAKA,8B;MA6CA,0BAAMe,I;;6BAzEnE,C,MAAA,E;MAAA ,oB;MAA+B,8C;K;oDAE3B,C,OAAA,E;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;gDAC/D,CAAA,E;MACiB,KA Ab,MAAa,Q;K;gEAGjB,C,OAAA,E;MAAgE,OAAa,KAAb,MAAa,uBAAc,OAAc,C;K;mDAE7E,CAAA,E;MAA wE,OAAy,YAAZ,qBAAY,W;K;8DAEpF,C,OAAA,E;MACI,IAAI,iBAAS,OAAT,CAAJ,C;QACiB,KAAb,MAAa, cAAO,OAAP,CAAe,GAAf,C;QACb,OAAO,I;MAEX,OAAO,K;K;iGAGY,CAAA,E;MAAQ,mBAaA,I;K;;uCA6C hD,CAAA,E;MACgB,KAAZ,qBAAY,Q;K;mDAIhB,C,GAAA,E;MAAmD,OAAy,KAAZ,qBAAY,gBAAS,GAAT ,C;K;qDAE/D,C,KAAA,E;MAAmE,qBAAZ,qB;MAAY,c;oBrEunDvE;A,QAFoB,Q;QADhB,IAAI,wCAASb,mBA A1B,C;UAAqC,aAAO,K;UAAP,e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IqErnD4D,KAAT, kBAAS,gBrEqnD9C,OqErnD8C,CAAU,KAAY,QrEqnD5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;Mq EtnDgD,iB;K;2FAInD,CAAA,E;MACI,IAAI,+BAAJ,C;QACI,0BAAW,qB;;MAEf,OAAO,sC;K;gDAGf,CAAA,E; MAAGf,iC;K;2CAEHf,C,GAAA,E;MAA+C,OAAy,KAAZ,qBAAY,WAAI,GAAJ,C;K;6CAE3D,C,UAAA,E;MA AgD,OAAy,KAAZ,qBAAY,aAAI,GAAJ,EAAS,KAAT,C;K;8CAE5D,C,GAAA,E;MAAyC,OAAy,KAAZ,qBAA Y,cAAO,GAAP,C;K;wFAEvB,CAAA,E;MAAQ,kCAAY,I;K;;yBA5DID,C,kBAAA,E;MAAA,iD;MAAuD,8B;MA vC3D,mB;MAwCQ,8BAAMb,W;MACnB,2BAAGB,WAAhB,CAA4B,Q;MAFhC,Y;K;2BAKA,C,KAAA,E;MAA A,iD;MAGuB,aAAK,kEAAAL,Q;MAHvB,Y;K;2BAKA,C,kCAAA,E;MAAA,iD;MAQ8D,qB;M3EpC9D,IAAI,E2E sCQ,mBAAMb,C3EtC3B,CAAJ,C;QACI,c2EqCgC,+C;Q3EpChC,MAAM,gCAAYb,OAAQ,WAAjC,C;;MAFV,I AAI,E2EuCQ,cAAc,C3EvCtB,CAAJ,C;QACI,gB2EsC2B,yC;Q3ErC3B,MAAM,gCAAYb,SAAQ,WAAjC,C;;M2E 0BV,Y;K;2BAcA,C,sBAAA,E;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;2BAGA,C,eAA A,E;MAAA,iD;MAG8C,qB;MAC1C,KAAK,gBAAO,QAAP,C;MAJt,Y;K;wBAqCJ,C,KAAA,E;MAK8E,gBAAn E,aAAmB,gEAAAnB,C;MAA2E,wB;MAAIF,OxEvCO,S;K;;MyEjEP,uB;;2CAyCA,C,OAAA,E;MACI,UAAc,KAA J,WAAI,aAAI,OAAl,EAAa,IAAb,C;MACd,OAAO,W;K;uCAGX,CAAA,E;MACQ,KAAJ,WAAI,Q;K;gDAOR,C, OAAA,E;MAA6D,OAAl,KAAJ,WAAI,mBAAY,OAAZ,C;K;yCAEjE,CAAA,E;MAAyC,OAAl,KAAJ,WAAI,U;K ;0CAE7C,CAAA,E;MAAQD,OAAS,KAAT,WAAAS,CAAL,IAAK,W;K;8CAE9D,C,OAAA,E;MAAKD,OAAl,KAA

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B,C;;M6E+C2B,KAazB,wBAAYB,cAAO,6BAAP,CAAMB,GAANB,C;MACzB,iBAAY,I;MAEZ,uC;K;;sDatDZ,  
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,E;MAKMD,gBAAXC,mBAAC,qBAAd,C;MAAgD,6B;MAAvD,O9EeO,S;K;;;2F+EzEX,C,WAAA,E;MAQI,OAA  
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AN,C;MACA,c;K;0CAKJ,CAAA,E;K;;yBAKuB,C,YAAA,E;MAA8B,qB;MAA7B,gC;K;oDACxB,C,OAAA,E;M  
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2D,C;QsEvLpF,Y;QACA,IAAI,CtEmLiE,WsEnLrD,IAAI,CAAJ,ItEmLqD,C;;MsEjLzE,4BAAU,C;K;0DAGd,CA  
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Af,C;MADzD,Y;K;;;uCCRA,C,KAAA,E;MAAA,+D;MAAuB,iC;MAF3B,iC;MAEI,Y;K;yCACA,C,cAAA,E;MA  
AA,+D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;yCACA,C,qBAAA,E;MAAA,+D;MAAmD,kCAAM,  
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,iC;MAKI,Y;K;uC5C4CJ,C,mCAAA,E;MASI,sC;MAAA,4C;K;IATJ,0GAWY,CAAA,E;MAAQ,2B;KAXpB,E;IA  
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,E;MACb,KAAK,MAAL,C;MACA,OAAO,M;K;wFC3HX,uBAAA,E;MAAA,uD;MAAA,iB,qBAAA,E;QAWqG,  
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CtB+B,C,MAAA,E;MACvC,8B;K;yEAAA,CAAA,E;MAAA,4B;K;oGAI,CAAA,E;MvGO4B,MAAM,yB;K;2Cu





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,E;MACb,iBAAc,UAAAd,UAA+B,QAA/B,U;QACI,8BAAU,UAAK,KAAL,CAAV,C;;MAEJ,OAAO,M;K;iCASKB,  
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,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MACIB,EAAE,UAAF,IAAgB,Q;MACHB,OAAO,  
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B,U;MACIB,EAAE,WAAF,IAAiB,S;MACjB,OAAO,C;K;kHakBX,C,gCAA,E;MAEsC,oB;QAAA,OAAgB,S;M  
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R,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MACHB,EAAE,SAAF,IA  
Ae,O;MACf,OAAO,C;K;wGakCmE,C,SAAA,E;MAAQ,OAAa,Y;K;sGAEtB,C,SAAA,E;MAAQ,OAAy,W;K;w  
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A,yC;K;;uCARJ,CAAA,E;MAAA,2F;K;;wCAAA,C,IAAA,E;MAAA,a;MAAA,S;UAAA,gD;aAAA,O;UAAA,8C;;  
UAAA,+D;;K;;kBA+ByB,C,WAAA,E;MACzB,8B;K;;sCAGJ,CAAA,E;K;;kCAyC6C,C,WAAA,E;MACzC,8B;K;  
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C,C,KAAA,E;MAI4D,yBAAGB,IAAhB,EAAsB,KAAtB,C;K;;kBC/BhE,C,aAAA,E;MAAA,e;MAAA,iB;MAAA,u  
B;K;6BAAA,CAAA,E;MAAA,6BAAA,E;O;MACI,4C;MACA,kD;MACA,0C;MACA,8C;K;;oCAHA,CAAA,E;M

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,kD;K;wDAeX,C,KAAA,E;MAII,2BAAY,K;MACZ,gD;K;+CAGJ,CAAA,E;MAII,+C;K;;yBCjDkC,CAAA,E;MA  
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+C,UtJ+VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;;;QAGR,qBAAO,E;;MsJnWqD,yB;K;mDAE5D,CAAA,E;M  
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X,iE;MAAX,OAAO,+B;K;;0CAO0B,C,aAAA,E;MAHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAAnB,OAA0B,M  
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,0EAOqB,eAPrB,CAO6B,M;MAO7B,0EAOqB,eAPrB,CAO6B,M;MAO7B,4EACKC,eADIC,CAC0C,kB;K;oHA7  
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NxT1C,C;+EASA,uBAAA,E;MAAA,4C;M3NqSA,+B;M2NrSA,iB,mBAAA,E;QAa2D,O3NkSjB,e2NIS0B,qB3Ny  
L7B,I2NzL6B,EA AW,QAAX,C3Nks1B,C;O;K2N/S1C,C;iFAeA,uBAAA,E;M3HgEA,4C;MhGsNA,+B;M2NtRA,  
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;O;K2NhS1C,C;oFAeA,uBAAA,E;M9OkKI,6B;M8OpTJ,gD;MAKJA,iB,SAAA,E;QAM8C,OAIJO,c9OuTd,cAAK,  
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KMO rD,C;sGAQA,uBAAA,E;MNbA,kE;MMaA,iB,SAAA,E;QAMuD,ONbkB,sBAAiB,UxO4GhB,IwO5GgB,GA  
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B,C;O;K8OzK1C,C;kFAeA,uBAAA,E;MAAA,8C;M9OgJA,+B;M8OhJA,iB,mBAAA,E;QAa4D,O9O6IIB,e8O7I2  
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,I+L5NN,C/L4NW,I+L5NX,G/L4NoB,K+L5NpB,C/L4N0B,I+L5NM,C/L4NjC,C;O;KAFrD,C;0FAGA,uBAAA,E;  
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Found in path(s):

\* /opt/cola/permits/1815024093\_1696602312.9668024/0/kotlin-1-9-10-2-tgz/package/kotlin.js

## 1.1048 spew 1.1.1

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# 1.1049 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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# 1.1050 mergo 0.3.13

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

site: string

author: root

# 1.1051 gofuzz 1.2.0

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# 1.1052 grpc-gateway 1.16.0

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## 1.1055 helm-sh-helm 3.13.0

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Java TelnetD library (embeddable telnet daemon)

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