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1.19 jackson-jaxrs 2.13.2

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### 1.24 aws-java-sdk-codebuild 1.12.186

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1.25 aws-java-sdk-ssoadmin 1.12.186

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* Constructs a new {@link SourceInterpreter} for the latest ASM API version. <i>Subclasses must  
* not use this constructor</i>. Instead, they must use the {@link #SourceInterpreter(int)}  
* version.  
*/  

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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources.jar/com/netflix/servo/monitor/ContextualTimer.java
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
jar/com/netflix/servo/monitor/DoubleMaxGauge.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/monitor/BasicCompositeMonitor.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/monitor/BasicTimer.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/SpectatorContext.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/monitor/AbstractContextualMonitor.java

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 * <p/>
 * Monitor registry and helper classes to expose monitored attributes to
 * JMX.
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 * JMX.
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Found in path(s):
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* <p/>
* Primary interfaces for metrics.
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* Primary interfaces for metrics.
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* Primary interfaces for metrics.
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources.jar/com/netflix/servo/util/ExpiringCache.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources.jar/com/netflix/servo/publish/AsyncMetricObserver.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources.jar/com/netflix/servo/monitor/MonitorConfig.java
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/util/ClockWithOffset.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/jmx/ObjectNameMapper.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/util/Preconditions.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/jmx/DefaultObjectNameMapper.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/jmx/OrderedObjectNameMapper.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/monitor/DurationTimer.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/tag/SmallTagMap.java

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* <p/>
* Code related to Tagging objects with metadata.
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* Code related to Tagging objects with metadata.
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* Code related to Tagging objects with metadata.
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* <p/>
* Interfaces for collecting metrics and publishing them to observers.
* <p/>
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* Interfaces for collecting metrics and publishing them to observers.
*/

Found in path(s):
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 * <p/>
 * Annotations to easily expose metrics from a class.
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 * Annotations to easily expose metrics from a class.
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  jar/com/netflix/servo/util/ThreadCpuStats.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/BasicStopwatch.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/Stopwatch.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/Timer.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/publish/MetricFilter.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/annotations/DataSourceType.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/tag/InjectableTag.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/publish/MemoryMetricObserver.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-jar/com/netflix/servo/monitor/NumericMonitorWrapper.java
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* <p/>
* Subinterfaces and implementations for {@link com.netflix.servo.monitor.Monitor}.
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* Subinterfaces and implementations for {@link com.netflix.servo.monitor.Monitor}.
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* Subinterfaces and implementations for {@link com.netflix.servo.monitor.Monitor}.
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  jar/com/netflix/servo/monitor/DynamicTimer.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/DynamicCounter.java
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* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/NumberGauge.java
* /opt/cola/permits/1301977709_1649309927.93/0/servo-core-0-13-2-sources-
  jar/com/netflix/servo/monitor/StatsMonitor.java

1.31 pep517 0.12.0

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1.34 jctools-core 3.1.0

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  jar/org/jctools/queues/SpscLinkedQueue.java
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  jar/org/jctools/queues/MpmcArrayQueue.java
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<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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<name>Apache License, Version 2.0</name>
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<scm>
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<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>

<developers>
<developer>
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</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>

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

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

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1.35 ion-java 1.0.2
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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.

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1.42 python-setuptools 62.0.0

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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.

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.

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```
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`fastjsonschema`

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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.
coderules.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
========
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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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 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
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 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/.
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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 PBMPLUS 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 PBMPLUS/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
=====

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.

1.46 jandex 2.4.2.Final
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1.49 py3-contextlib 21.6.0-r1

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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.
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  */opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
  */opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ipfilter/IPSubnetFilterRuleComparator.java
  */opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java

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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java

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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/pcap/IPPacket.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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 */opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/PemValue.java
 */opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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1.52 cxf-rt-frontend-jaxws 3.5.0

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1.53 aws-java-sdk-datasync 1.12.186

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1.54 **aws-java-sdk-computeoptimizer 1.12.186**

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Authors/contributors include:

A. Wilcox
Ada Worcester
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
Benjamin Peterson
Bobby Bingham
Boris Brezillon
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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, 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 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.

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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.

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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Comment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Entity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/IllegalAddException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceCache.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMReader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/QName.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/VisitorSupport.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/InvalidXPathException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPath.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanMetaData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanElementFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/visitor/VisitorSupport.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rules/Rule.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rules/RuleContext.java
jar/org/dom4j/io/DOMWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/BackedList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/STAXEventWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBSupport.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/IndexedElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/ElementStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/NodeFilter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPathException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCharacterData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/pattern/NodeTypePattern.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dtd/ExternalEntityDecl.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/XMLTableDefinition.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/XPP3Reader.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractCDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/DocumentTreeModel.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/ProxyDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/PruningElementStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentType.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ContentListFacade.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Visitor.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Node.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Attribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/swing/XMLTableModel.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Mode.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/NullAction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Namespace.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXValidator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/BaseElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMText.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/xpath/DefaultXPath.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementPath.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CharacterData.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/SimpleSingleton.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NonLazyDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/datatype/DatatypeAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractDocument.java
jar/org/dom4j/tree/ElementNameIterator.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DOMDocumentResult.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/datatype/SchemaParser.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DispatchHandler.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXModifyContentHandler.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/AbstractComment.java
*/
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/util/AttributeHelper.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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jar/org/dom4j/tree/DefaultNamespace.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/Element.java
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* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.84 zlib 1.2.11 r3

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   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/rs/ResponseHeader.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/soap/SoapBindingName.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/qname/XmlQNameEnumValue.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/Label.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/readOnly.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/rs/ResponseCode.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/only.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/Facet.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/Ignore.java
   * /opt/cola/permits/1258849025_1643112926.03/0/enunciate-core-annotations-2-13-3-sources-jar/com/webcohesion/enunciate/metadata/ReadOnly.java
1.87 aws-java-sdk-workspacesweb 1.12.186
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1.88 xsdlib 2013.6.1
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources.jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources.jar/com/sun/xml/util/XmlChars.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources.jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources.jar/com/sun/msv/datatype/xsd/GYearMonthType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TokenType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
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1.94 pep517 0.11.0

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1.95 aws-java-sdk-marketplacecommerceanalytics 1.12.186
CacheControl is a port of the caching algorithms in httplib2 for use with requests session object.

It was written because httplib2's better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart
.. code-block:: python

    import requests

    from cachecontrol import CacheControl

    sess = requests.session()
    cached_sess = CacheControl(sess)

    response = cached_sess.get('http://google.com')

    If the URL contains any caching based headers, it will cache the result in a simple dictionary.

    For more info, check out the docs_

    .. _docs: http://cachecontrol.readthedocs.org/en/latest/
    .. _httplib2: https://github.com/httplib2/httplib2
    .. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

Found in path(s):
* /opt/cola/permits/1233822538_1645727267.35/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/PKG-INFO
* /opt/cola/permits/1233822538_1645727267.35/0/cachecontrol-0-12-10-tar-gz/CacheControl-0.12.10/CacheControl.egg-info/PKG-INFO

1.98 tomcat-jni 8.5.75
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* /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-
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  jar/org/apache/commons/logging/impl/Jdk14Logger.java
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  jar/org/apache/commons/logging/impl/LogSource.java
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  jar/org/apache/commons/logging/impl/ServletContextCleaner.java
1.141 less 590-r0

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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.

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Distutils2 Contributors
===============================================

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
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- Ned Deily
- Konrad Delong
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* /opt/cola/permits/1248311138_1643163250.74/0/netty-all-4-1-72-final-jar/META-INF/maven/io.netty/netty-
  all/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.72.Final
Built-By: norman
Bnd-LastModified: 1639396275971
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/All-in-One
Bundle-Version: 4.1.72.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-all/

Found in path(s):
* /opt/cola/permits/1248311138_1643163250.74/0/netty-all-4-1-72-final-jar/META-INF/MANIFEST.MF

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The primary ANTLR guy:

Terence Parr
parr@cs.usfca.edu
parr@antlr.org

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1.175 isorelax 20090621

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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.183 cxf-rt-bindings-xml 3.5.0

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* 
****************************************************************************
* Convert PKCS#1 encoded private key into RSAPrivateCrtKeySpec.
* 
* <p/>The ASN.1 syntax for the private key with CRT is
* 
* <pre>
* --
* -- Representation of RSA private key with information for the CRT algorithm.
* --
* RSAPrivateKey ::= SEQUENCE {
*   version Version,
*   modulus INTEGER, -- n
*   publicExponent INTEGER, -- e
*   privateExponent INTEGER, -- d
*   prime1 INTEGER, -- p
*   prime2 INTEGER, -- q
*   exponent1 INTEGER, -- d mod (p-1)
*   exponent2 INTEGER, -- d mod (q-1)
*   coefficient INTEGER, -- (inverse of q) mod p
*   otherPrimeInfos OtherPrimeInfos OPTIONAL
* }
* </pre>
* 
* @param keyInPkcs1 PKCS#1 encoded key
* @throws IOException
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- javae_web_services_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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/**
* Strategy interface for translating between [@link SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [@link DataAccessException]
* hierarchy.
* 
* &lt;p&gt;Implementations can be generic (for example, using
* [@link java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* 
* &lt;author&gt;Rod Johnson
* &lt;/author&gt;
* 
* &lt;author&gt;Juergen Hoeller
* &lt;/author&gt;
* 
* &lt;see org.springframework.dao.DataAccessException
* 
*/

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/**
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java

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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
Development</a>
* by Rod Johnson (Wrox, 2002).
*/

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jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/core/init/ScriptException.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/datasource/init/DataSourceUtils.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/core/jdbcOperations.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/datasource/init/DataSourcePopulatorUtils.java
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/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
* 
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/

/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never [@code null])
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/

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1.206 py3-packaging 20.9-r1

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src/base/md5.c
src/base/md5.h
#
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src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
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src/bdf/rules.mk
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src/gzip/infblock.c
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src/gzip/inflate.c
src/gzip/inftrees.c
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src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
# EOF

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1.221 webencodings 0.5.1

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Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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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=[


Open Source Used In UCM Cloud Analyzer Service 1.0 1146
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 = ['"\n
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)).lstrip('u'),
         repr(encoding['name']).lstrip('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,' % (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/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings/mklabels.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
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
* License: BSD
* 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 Pythons.

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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Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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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.

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1-tar-gz/webencodings-0.5.1/README.rst

1.222 py3-requests 2.26.0-r1

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Found in path(s):
/.../AWSDeviceFarmClient.java
/.../AWSDeviceFarmException.java
/.../CannotDeleteException.java
/.../CreateTestGridUrlRequest.java
/.../CreateTestGridUrlRequestProtocolMarshaller.java
/.../GetAccountSettingsRequestMarshaller.java
/.../GetJobRequestProtocolMarshaller.java
/.../ListNetworkProfilesRequestProtocolMarshaller.java
/.../ListOfferingPromotionsRequestProtocolMarshaller.java
/.../CreateTestGridProjectRequestMarshaller.java
/.../CreateTestGridProjectRequest.java
/.../CreateTestGridProjectRequestProtocolMarshaller.java
/.../CreateProjectRequestProtocolMarshaller.java
/.../CreateProjectRequest.java
/.../InstallToRemoteAccessSessionResult.java
/.../IncompatibilityMessageJsonUnmarshaller.java
/.../UpdateTestGridProjectRequest.java
/.../UpdateTestGridProjectRequestProtocolMarshaller.java
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* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1.jar/com/amazonaws/services/devicefarm/model/ScheduleRunTest.java
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* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/transform/CreateInstanceProfileRequestProtocolMarshaller.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/transform/DeleteProjectResultJsonUnmarshaller.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/transform/AbstractAWSDeviceFarm.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/transform/CountersMarshaller.java
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* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/transform/DeleteDevicePoolRequestMarshaller.java
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* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/Location.java
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* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/Jobs.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/Locations.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/Resolutions.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/TestsResult.java
* /opt/cola/permits/1301977832_1649309755.64/0/aws-java-sdk-devicefarm-1-12-186-sources-1-jar/com/amazonaws/services/devicefarm/model/Samples.java
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1.12.186

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### 1.231 hibernate 5.6.4.Final

1.231.1 Available under license:

```yaml
name: Hibernate ORM build

on:
  push:
    branches:
      - '5.6'
  pull_request:
    branches:
```

# The main CI of Hibernate ORM is https://ci.hibernate.org/job/hibernate-orm-6.0-h2-main/.  
# However, Hibernate ORM builds run on GitHub actions regularly  
# to check that it still works and can be used in GitHub forks.  
# See https://docs.github.com/en/free-pro-team@latest/actions  
# for more information about GitHub actions.
jobs:
  build:
    name: Java 8
    runs-on: ubuntu-latest
    # We want to know the test results of all matrix entries
    continue-on-error: true
    strategy:
      fail-fast: false
      matrix:
        # When GitHub Actions supports it: https://github.com/actions/toolkit/issues/399
        # We will use the experimental flag as indicator whether a failure should cause a workflow failure
        include:
          - rdbms: h2
            experimental: false
          - rdbms: derby
            experimental: true
          - rdbms: mariadb
            experimental: true
          - rdbms: postgresql
            experimental: true
          - rdbms: oracle
            experimental: true
          - rdbms: db2
            experimental: true
          - rdbms: mssql
            experimental: true
          # Running with HANA requires at least 8GB memory just for the database, which we don't have on GH Actions runners
          #   - rdbms: hana
          #     experimental: true
        steps:
          - uses: actions/checkout@v2
            with:
              persist-credentials: false
          - name: Reclaim Disk Space
            run: .github/ci-prerequisites.sh
          - name: Start database
            env:
              RDBMS: ${{ matrix.rdbms }}
            run: ci/database-start.sh
          - name: Set up Java 8
            uses: actions/setup-java@v1
            with:
              java-version: 1.8
          - name: Get year/month for cache key
            id: get-date
            run: |
```
echo '::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")'
shell: bash
- name: Cache Maven local repository
  uses: actions/cache@v2
  id: cache-maven
  with:
    path: |
      ~/.m2/repository
      ~/.gradle/caches/
      ~/.gradle/wrapper/
    # refresh cache every month to avoid unlimited growth
    key: maven-localrepo-$
    # matrix.rdbms
  - name: Run build script
    env:
      RDBMS: ${{ matrix.rdbms }}
    run: ./ci/build-github.sh
    shell: bash
  - name: Upload test reports (if Gradle failed)
    uses: actions/upload-artifact@v2
    if: failure()
    with:
      name: test-reports-java8-$
      path: |
        ./**/target/reports/tests/
        ./**/target/reports/checkstyle/
  - name: Omit produced artifacts from build cache
    run: ./ci/before-cache.sh

build11:
  name: Java 11
  runs-on: ubuntu-latest
  # We want to know the test results of all matrix entries
  continue-on-error: true
  steps:
    - uses: actions/checkout@v2
      with:
        persist-credentials: false
    - name: Set up Java 11
      uses: actions/setup-java@v1
      with:
        java-version: 11
    - name: Get year/month for cache key
      id: get-date
      run: |
        echo '::set-output name=yearmonth::$(/bin/date -u "+%Y-%m")'
      shell: bash
    - name: Cache Maven local repository
      uses: actions/cache@v2
      id: cache-maven
```

with:
path: |
~/.m2/repository
~/.gradle/caches/
~/.gradle/wrapper/
# refresh cache every month to avoid unlimited growth
key: maven-localrepo-$\{ steps.get-date.outputs.yearmonth \}$
- name: Run build script
  run: ./ci/build-github.sh
  shell: bash
- name: Upload test reports (if Gradle failed)
  uses: actions/upload-artifact@v2
  if: failure()
  with:
    name: test-reports-java11
    path: |
      ./**/target/reports/tests/
      ./**/target/reports/checkstyle/
- name: Omit produced artifacts from build cache
  run: ./ci/before-cache.sh

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1.243 archaius-core 0.4.1

1.244 aws-java-sdk-directconnect 1.12.186

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jar/com/amazonaws/services/comprehend/model/transform/ListEntityRecognizerSummariesResultJsonUnmarshall
er.java

* /opt/cola/permits/1301977736_1649310078.84/0/aws-java-sdk-comprehend-1-12-186-sources-1-
jar/com/amazonaws/services/comprehend/model/DetectPiiEntitiesRequest.java

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1.249 spring-framework 5.3.18

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**Note:** The file paths provided seem to be a mix of file names and directories, which might not be relevant to the context of the question. The information appears to be related to an AWS SDK for CloudSearch.
1.262 aws-java-sdk-braket 1.12.186
1.262.1 Available under license:
   Apache-2.0

1.263 aws-java-sdk-mediastoredata 1.12.186
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1.264 jersey-container-servlet-core 2.35
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   ## Source Code
   The project maintains the following source code repositories:
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jar/com/amazonaws/services/codestar/model/transform/DeleteProjectRequestProtocolMarshaller.java
* /opt/cola/permits/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
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jar/com/amazonaws/services/codestar/model/transform/ProjectAlreadyExistsExceptionUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/DescribeProjectRequestProtocolMarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/InvalidNextTokenExceptionUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/CreateUserProfileRequestMarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/UpdateProjectResult.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/ConcurrentModificationExceptionUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/CodeSourceJsonUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
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* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
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* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/UpdateUserProfileRequest.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
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* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/DeleteUserProfileResult.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/AWSCodeStarAsyncClientBuilder.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/TeamMemberMarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/TeamMemberNotFoundExceptionUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/ListTeamMembersResultJsonUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
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* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/CodeCommitCodeDestinationJsonUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/ListResourcesRequestProtocolMarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/ListResourcesResult.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/UserProfileSummaryJsonUnmarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/DeleteUserProfileResult.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/ListResourcesResult.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/AssociateTeamMemberRequestProtocolMarshaller.java
* /opt/cola/permissions/1301977577_1649310496.21/0/aws-java-sdk-codestar-1-12-186-sources-1-
jar/com/amazonaws/services/codestar/model/transform/AssociateTeamMemberRequestProtocolMarshaller.java
1.266 py3-urllib 1.26.7-r0

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 * and limitations under the License.
 */
*/
/**
 * <p>The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an
 * on-premises volume, omit this parameter.</p>
 * <p>You can't specify <b>ParentSnapshotId</b> and <b>Encrypted</b> in the same request. If you specify both
 * parameters, the request fails with <code>ValidationException</code>.</p>
 * <p>The encryption status of the snapshot depends on the values that you specify for <b>Encrypted</b>,<br/>
 * <p>If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt<br/>
 * the parent snapshot. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.</p>
 */
/**
 * Indicates whether to encrypt the snapshot.
 * <p>You can't specify <b>Encrypted</b> and <b>ParentSnapshotId</b> in the same request. If you specify both
 * parameters, the request fails with <code>ValidationException</code>.</p>
 * The encryption status of the snapshot depends on the values that you specify for <b>Encrypted</b>,<br/>
 * <b>KmsKeyArn</b>, and <b>ParentSnapshotId</b>, and whether your Amazon Web Services account is enabled for <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">encryption</a>. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.</p>
To create an encrypted snapshot, you must have permission to use the KMS key. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

To specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

the parent snapshot. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

the parent snapshot. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an

on-premises volume, omit this parameter.

The encryption status of the snapshot depends on the values that you specify for Encrypted, KmsKeyArn, and ParentSnapshotId, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see a Using encryption in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to create an encrypted snapshot, you must have permission to use the KMS key. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an on-premises volume, omit this parameter.

You can't specify ParentSnapshotId and Encrypted in the same request. If you specify both parameters, the request fails with ValidationException.

The encryption status of the snapshot depends on the values that you specify for Encrypted, KmsKeyArn, and ParentSnapshotId, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see a Using encryption in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

the parent snapshot. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an on-premises volume, omit this parameter.

You can't specify ParentSnapshotId and Encrypted in the same request. If you specify both parameters, the request fails with ValidationException.

The encryption status of the snapshot depends on the values that you specify for Encrypted, KmsKeyArn, and ParentSnapshotId, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see a Using encryption in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

the parent snapshot. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an on-premises volume, omit this parameter.

You can't specify ParentSnapshotId and Encrypted in the same request. If you specify both parameters, the request fails with ValidationException.

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If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

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The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an on-premises volume, omit this parameter.

You can't specify ParentSnapshotId and Encrypted in the same request. If you specify both parameters, the request fails with ValidationException.

The encryption status of the snapshot depends on the values that you specify for Encrypted, KmsKeyArn, and ParentSnapshotId, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see a Using encryption in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt

the parent snapshot. For more information, see a Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.
for an on-premises volume, omit this parameter.</p>

* <p>
* You can't specify <b>ParentSnapshotId</b> and <b>Encrypted</b> in the same request. If you specify both
* parameters, the request fails with <code>ValidationException</code>.
* </p>

* <p>
* The encryption status of the snapshot depends on the values that you specify for <b>Encrypted</b>,
* <b>KmsKeyArn</b>, and <b>ParentSnapshotId</b>, and whether your Amazon Web Services account is enabled for
* </p>

* <important>
* </important>

*/
/**
* The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an
* on-premises volume, omit this parameter.
* </p>

* <p>
* You can't specify <b>ParentSnapshotId</b> and <b>Encrypted</b> in the same request. If you specify both
* parameters, the request fails with <code>ValidationException</code>.
* </p>

* <p>
* The encryption status of the snapshot depends on the values that you specify for <b>Encrypted</b>,
* </p>

*/

* <important>
* </important>
If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt the parent snapshot. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a> in the Amazon Elastic Compute Cloud User Guide.

The ID of the parent snapshot. If there is no parent snapshot, or if you are creating the first snapshot for an on-premises volume, omit this parameter.

You can't specify `<b>ParentSnapshotId</b>` and `<b>Encrypted</b>` in the same request. If you specify both parameters, the request fails with `<code>ValidationException</code>.

The encryption status of the snapshot depends on the values that you specify for `<b>Encrypted</b>`, `<b>KmsKeyArn</b>`, and `<b>ParentSnapshotId</b>`, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">Using encryption</a> in the Amazon Elastic Compute Cloud User Guide.

If you specify an encrypted parent snapshot, you must have permission to use the KMS key that was used to encrypt the parent snapshot. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a> in the Amazon Elastic Compute Cloud User Guide.

Indicates whether to encrypt the snapshot.

You can't specify `<b>Encrypted</b>` and `<b>ParentSnapshotId</b>` in the same request. If you specify both parameters, the request fails with `<code>ValidationException</code>. 

/*
/**
* Indicates whether to encrypt the snapshot.
* */
*/
* The encryption status of the snapshot depends on the values that you specify for `<b>Encrypted</b>`, `<b>KmsKeyArn</b>`, and `<b>ParentSnapshotId</b>`, and whether your Amazon Web Services account is enabled for `<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">encryption by default</a>`. For more information, see `<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapis-using-encryption.html">Using encryption</a>` in the `<i>Amazon Elastic Compute Cloud User Guide</i>`.

* `@param encrypted`  
  Indicates whether to encrypt the snapshot.

* You can't specify `<b>Encrypted</b>` and `<b>ParentSnapshotId</b>` in the same request. If you specify both parameters, the request fails with `<code>ValidationException</code>`.

* `The encryption status of the snapshot depends on the values that you specify for `<b>Encrypted</b>`, `<b>KmsKeyArn</b>`, and `<b>ParentSnapshotId</b>`, and whether your Amazon Web Services account is enabled for `<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">encryption by default</a>`. For more information, see `<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapis-using-encryption.html">Using encryption</a>` in the `<i>Amazon Elastic Compute Cloud User Guide</i>`.

* `<important>`

* To create an encrypted snapshot, you must have permission to use the KMS key. For more information, see `<a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a>` in the `<i>Amazon Elastic Compute Cloud User Guide</i>`.
* Indicates whether to encrypt the snapshot.

* You can't specify `<b>Encrypted</b>` and `<b>ParentSnapshotId</b>` in the same request. If you specify both parameters, the request fails with `<code>ValidationException</code>`.

* The encryption status of the snapshot depends on the values that you specify for `<b>Encrypted</b>`, `<b>KmsKeyArn</b>`, and `<b>ParentSnapshotId</b>`, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">Using encryption</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.

* To create an encrypted snapshot, you must have permission to use the KMS key. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapi-permissions.html#ebsapi-kms-permissions">Permissions to use Key Management Service keys</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.

* Indicates whether to encrypt the snapshot.

* You can't specify `<b>Encrypted</b>` and `<b>ParentSnapshotId</b>` in the same request. If you specify both parameters, the request fails with `<code>ValidationException</code>`.

* The encryption status of the snapshot depends on the values that you specify for `<b>Encrypted</b>`, `<b>KmsKeyArn</b>`, and `<b>ParentSnapshotId</b>`, and whether your Amazon Web Services account is enabled for encryption by default. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSEncryption.html#encryption-by-default">Using encryption</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.

* To create an encrypted snapshot, you must have permission to use the KMS key. For more information, see
Permissions to use Key Management Service keys in the Amazon Elastic Compute Cloud User Guide.

*/

Found in path(s):
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-jar/com/amazonaws/services/ebs/model/StartSnapshotRequest.java
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* and limitations under the License.
*/
/**
* <p>
* The ID of the snapshot.
* </p>
* <important>
* <p>
* If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to encrypt
the
* snapshot. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebssnapshots-using-encryption.html">Using encryption</a> in
* the Amazon Elastic Compute Cloud User Guide</i>.
* </p>
* </important>
*/
/**
* <p>
* The ID of the snapshot.
* </p>
* <important>
* <p>
* If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to encrypt
* the snapshot. For more information, see &lt;a
* encryption&lt;/a&gt; in
* the &lt;i&gt;Amazon Elastic Compute Cloud User Guide&lt;/i&gt;..
* &lt;/p&gt;
* &lt;/important&gt;
* 
* @param snapshotId
* &lt;p&gt;The ID of the snapshot.&lt;/p&gt; &lt;important&gt;
* &lt;p&gt;
* If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to
* encrypt the snapshot. For more information, see &lt;a
* encryption&lt;/a&gt; in the &lt;i&gt;Amazon Elastic Compute Cloud User Guide&lt;/i&gt;..
* &lt;/p&gt;
* &lt;/important&gt;
* 
* @return The ID of the snapshot.&lt;/p&gt; &lt;important&gt;
* &lt;p&gt;
* If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to
* encrypt the snapshot. For more information, see &lt;a
* encryption&lt;/a&gt; in the &lt;i&gt;Amazon Elastic Compute Cloud User Guide&lt;/i&gt;..
* &lt;/p&gt;
* &lt;/important&gt;

Found in path(s):
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
jar/com/amazonaws/services/ebs/model/PutSnapshotBlockRequest.java

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 */

Found in path(s):
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/ListSnapshotBlocksResult.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/transform/StartSnapshotResultJsonUnmarshaller.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/transform/PutSnapshotBlockRequestMarshaller.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/ConcurrentLimitExceededException.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/CompleteSnapshotRequest.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/CompleteSnapshotResult.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/transform/BlockMarshaller.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/ChecksumAggregationMethod.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/model/ValidationExceptionReason.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
  jar/com/amazonaws/services/ebs/AmazonEBSAsyncClient.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
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jar/com/amazonaws/services/ebs/model/transform/TagMarshaller.java
* /opt/cola/permits/1301978175_1649310079.0/0/aws-java-sdk-ebs-1-12-186-sources-1-
jar/com/amazonaws/services/ebs/model/AccessDeniedExceptionReason.java
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 */
/**
 * <p>
 * The ID of the snapshot containing the block from which to get data.
 * </p>
 * <important>
 * <p>
 * If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to encrypt the
 * snapshot. For more information, see <a
 * the <i>Amazon Elastic Compute Cloud User Guide</i>.
 * </p>
 * </important>
 */
/**
 * <p>
 * The ID of the snapshot containing the block from which to get data.
 * </p>
 */
* If the specified snapshot is encrypted, you must have permission to use the KMS key that was used to encrypt the snapshot. For more information, see <a href="https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebsapis-using-encryption.html">Using encryption</a> in the <i>Amazon Elastic Compute Cloud User Guide</i>.

* @param snapshotId

* The ID of the snapshot containing the block from which to get data.

* @return The ID of the snapshot containing the block from which to get data.
1.269 pyyaml 5.4.1

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1.270 pkgconf 1.8.0-r0

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1.272 postgresql-jdbc 42.2.5

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1.275 libc-utils 0.7.2-r3

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  jar/org/jetbrains/annotations/TestOnly.java
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  jar/org/intellij/lang/annotations/MagicConstant.java
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  jar/org/intellij/lang/annotations/JdkConstants.java
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  jar/org/jetbrains/annotations/NotNull.java
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1.279 py3-parsing 2.4.7-r2

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1.286 aws-java-sdk-elastictranscoder 1.12.186

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* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/transform/TestRoleResultJsonUnmarshaller.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/transform/AccessDeniedExceptionUnmarshaller.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/transform/HlsContentProtection
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jar/com/amazonaws/services/elastictranscoder/model/ListPresetsRequest.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/CreatePresetResult.java
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jar/com/amazonaws/services/elastictranscoder/model/PlayReadyDrmJsonUnmarshaller.java
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jar/com/amazonaws/services/elastictranscoder/model/ListPipelinesResultJsonUnmarshaller.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/UpdatePipelineResult.java
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jar/com/amazonaws/services/elastictranscoder/model/ListJobsByPipelineRequest.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/CancelJobRequestProtocolMarshaller.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
jar/com/amazonaws/services/elastictranscoder/model/PlaylistMarshaller.java
* /opt/cola/permits/1301977018_1649310204.4/0/aws-java-sdk-elastictranscoder-1-12-186-sources-1-
1.287 xmlschema 2.3.0

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1.288 apr 1.7.0-r0

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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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* 
* cvt - IEEE floating point formatting routines.
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* 

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1.289 jaxb-core 2.3.5

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1.290 sudo 1.9.8_p2-r1

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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
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Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vitezslav
Coleman, Chris
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
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Simon, Thor Lancelot
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Spangler, Aaron
Spradling, Cloyce D.
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Toft, Martin
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Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
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
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
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Garca-Fontes, Walter
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Marchal, Frederic
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Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
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Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
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## Source Code

The project maintains the following source code repositories:

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1.310 aws-java-sdk-costexplorer 1.12.186

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* https://github.com/eclipse-ee4j/jaf

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1.318 py3-webencodings 0.5.1-r4
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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.

---

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    ''
}

labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('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,
' % (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/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

No license file was found, but licenses were detected in source scan.

from setuptools import setup, find_packages
import io
import os

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), '__init__.py'), 'r').read()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'), 'r').read()
encoding='utf-8'
)

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/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/setup.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
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
* License: BSD
* 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 Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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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
* License: BSD
* 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 Pythons.

Found in path(s):

* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/README.rst
1.319 aws-java-sdk-simpleworkflow 1.12.186
1.319.1 Available under license:
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    src/test/org/apache/commons/codecs/language/DoubleMetaphoneTest.java
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

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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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<table>
<thead>
<tr>
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* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source: https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations
maven-plugin-api (3.5.2)
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maven-resolver-transport-file (1.1.1)
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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source: https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)
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maven-settings (3.5.2)
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* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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plexus-archiver (3.5)
* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

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plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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Sax (0.2)

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* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
* Project: https://maven.apache.org/wagon/
* Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

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1.333 zlib-dev 1.2.12-r0

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* /opt/cola/permits/1301978271_1649309823.08/0/aws-java-sdk-costandusagereport-1-12-186-sources-1-jar/com/amazonaws/services/costandusagereport/AbstractAWSCostAndUsageReportAsync.java
* /opt/cola/permits/1301978271_1649309823.08/0/aws-java-sdk-costandusagereport-1-12-186-sources-1-jar/com/amazonaws/services/costandusagereport/model/transform/ModifyReportDefinitionRequestProtocolMarshaller.java
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jar/com/amazonaws/services/costandusagereport/model/transform/DuplicateReportNameExceptionUnmarshaller.jav
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jar/com/amazonaws/services/costandusagereport/package-info.java

1.335 aws-java-sdk-cloudhsmv2 1.12.186
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1.336 py3-parsing 2.4.7-1.ph4

1.336.1 Available under license:

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1.337 failureaccess 1.0.1

1.337.1 Available under license:

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1.338 aws-java-sdk-emrcontainers 1.12.186
1.338.1 Available under license:
   Apache-2.0

1.339 kotlin 1.3.61
1.339.1 Available under license:
   No license file was found, but licenses were detected in source scan.

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```
(function (root, factory) {
    if (typeof define === 'function' && define.amd) {
        define('kotlin', ['exports'], factory);
    }
    else if (typeof exports === 'object') {
        factory(module.exports);
    }
    else {
        root.kotlin = {}
        factory(root.kotlin);
    }
}(this, function (Kotlin) {
    var _ = Kotlin;

    insertContent();
}));

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 */

Kotlin.isBooleanArray = function (a) {
    return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === "BooleanArray"
};

Kotlin.isByteArray = function (a) {
    return a instanceof Int8Array && a.$type$ !== "BooleanArray"
};

Kotlin.isShortArray = function (a) {
    return a instanceof Int16Array
};

Kotlin.isCharArray = function (a) {
    return a instanceof Uint16Array && a.$type$ === "CharArray"
};

Kotlin.isIntArray = function (a) {
    return a instanceof Int32Array
};

Kotlin.isFloatArray = function (a) {
    return a instanceof Float32Array
};

Kotlin.isDoubleArray = function (a) {
    return a instanceof Float64Array
};

Kotlin.isLongArray = function (a) {
    return Array.isArray(a) && a.$type$ === "LongArray"
};

Kotlin.isArray = function (a) {
    return Array.isArray(a) && !a.$type$;
};

Kotlin.isArrayish = function (a) {
    return Array.isArray(a) || ArrayBuffer.isView(a)
};

Kotlin.arrayToString = function (a) {
    var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;
    return "[" + Array.prototype.map.call(a, function (e) { return toString(e); }).join(", ") + "]"
};

Kotlin.arrayDeepToString = function (arr) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);
};

Kotlin.arrayEquals = function (a, b) {
    if (a === b) {
        return true;
    }
    if (!Kotlin.isArrayish(b) || a.length !== b.length) {
        return false;
    }

    for (var i = 0, n = a.length; i < n; i++) {
        if (!Kotlin.equals(a[i], b[i])) {
            return false;
        }
    }
    return true;
};

Kotlin.arrayDeepEquals = function (a, b) {
    return Kotlin.kotlin.collections.contentDeepToStringImpl(a) === Kotlin.kotlin.collections.contentDeepToStringImpl(b)
};

Kotlin.primitiveArraySort = function (array) {
    array.sort(Kotlin.doubleCompareTo)
};

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 */

Kotlin.getCallableRef = function(name, f) {
    f.callableName = name;
    return f;
};

Kotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {
    getter.get = getter;
    getter.set = setter;
    return getPropertyRefClass(getter, setter,
```
function getPropertyRefClass(obj, setter, cache) {
    return obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);
}

function getPropertyRefMetadata(cache) {
    if (cache.value === null) {
        cache.value = {
            interfaces: [cache.implementedInterface()]
        };
    }
    return cache.value;
}

Kotlin.toShort = function (a) {
    return (a & 0xFFFF) << 16 >> 16;
};

Kotlin.toByte = function (a) {
    return (a & 0xFF) << 24 >> 24;
};

Kotlin.toChar = function (a) {
    return a & 0xFFFF;
};

Kotlin.numberToLong = function (a) {
    return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);
};

Kotlin.numberToInt = function (a) {
    return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);
};

Kotlin.numberToShort = function (a) {
    return Kotlin.toShort(Kotlin.numberToInt(a));
};

Kotlin.numberToByte = function (a) {
    return Kotlin.toByte(Kotlin.numberToInt(a));
};

Kotlin.numberToDouble = function (a) {
    return +a;
};

Kotlin.equals = function (obj1, obj2) {
    if (obj1 == null) {
        return obj2 == null;
    }
    if (obj2 == null) {
        return false;
    }
    if (typeof obj1 === "object" && typeof obj1.equals === "function") {
        return obj1.equals(obj2);
    }
    if (typeof obj1 === "number" && typeof obj2 === "number") {
        return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)
    }
    var objType = String(obj);
    return getHashCode(obj) == getHashCode(obj2) && getHashCode(obj) == getHashCode(obj2);
};

Kotlin.hashCode = function (obj) {
    if (obj == null) {
        return 0;
    }
    var objType = String(obj);
    return getHashCode(obj) == getHashCode(obj2) && getHashCode(obj) == getHashCode(obj2);
};

Kotlin.toString = function (o) {
    if (o == null) {
        return "null";
    }
    else if (Kotlin.isArrayish(o)) {
        return "[...]
    }
    else {
        return o.toString();
    }
};

Kotlin.identityHashCode = getHashCode;
/**
 * Constructs a 64-bit two's-complement integer, given its low and high 32-bit
 * values as signed integers. See the from* functions below for more
 * convenient ways of constructing Longs.
 *
 * The internal representation of a long is the two given signed, 32-bit
 * values: ln * in * A. We use 32-bit pieces because these are the size of integers on which
 * Javascript performs bit-operations. For operations like addition and
 * multiplication, we split each number into 16-bit pieces, which can
 * easily be multiplied within Javascript's floating-point representation without overflow
 * or change in sign. In the algorithms below, we frequently reduce the negative case to the
 * case by negating the input(s) and then post-processing the result.
 * Note that we must ALWAYS check specially whether those values are
 * MIN_VALUE or not.

 * @param {number} low The low (signed) 32 bits of the long.
 * @param {number} high The high (signed) 32 bits of the long.
 * @constructor
 * @final
 */
Kotlin.Long = function(low, high) {
  this.low_ = low | 0;  // force into 32 signed bits.

  this.high_ = high | 0;  // force into 32 signed bits.
};

Kotlin.Long.$metadata$ =
{
  kind: "class",
  simpleName: "Long",
  interfaces:
[
  
];

// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the
// from* methods on which they depend.

/**
 * A cache
 * of the Long representations of small integer values.
 * @type {!Object}
 * @private
 */
Kotlin.Long.IntCache_ = {};

/**
 * Returns a Long representing the given (32-bit) integer value.
 * The fractional part, if any, is rounded down towards zero.
 * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,
 * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.
 * @param {number} value The number in
 * question.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromNumber = function(value) {
  if (isNaN(value)) {
    return Kotlin.Long.ZERO;
  } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MIN_VALUE;
  } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
    return Kotlin.Long.MAX_VALUE;
  } else if (value < 0) {
    return Kotlin.Long.fromNumber(-value).negate();
  } else {
    return new Kotlin.Long(
        (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,
        (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);
  }
};

/**
 * Returns a Long representation of the given string, written using the given
 * radix.
 * @param {string} str The textual
 * representation of the Long.
 * @param {number=} opt_radix The radix in which the text is written.
 * @return {!Kotlin.Long} The corresponding Long value.
 */
Kotlin.Long.fromString = function(str, opt_radix) {
  if (str.length == 0) {
    throw Error('number format error: empty string');
  }

  if (str.charAt(0) == '-') {
    return Kotlin.Long.fromString(str.substring(1), opt_radix).negate();
  } else if (str.indexOf('-') >= 0) {
    throw Error('number format error: interior "-" character: ' + str);
  }

  var radix = opt_radix || 10;

  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  var cachedObj = Kotlin.Long.IntCache_;

  if (cachedObj) {
    return cachedObj;
  }

  var cachedObj = Kotlin.Long.IntCache_ = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
  return cachedObj;
};
i += 8) {
    var size = Math.min(8, str.length - i);
    var value = parseInt(str.substring(i, i + size), radix);
    if (size < 8) {
      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
      result = result.multiply(power).add(Kotlin.Long.fromNumber(value));
    } else {
      result = result.multiply(radixToPower);
      result = result.add(Kotlin.Long.fromNumber(value));
    }
  }
  return result;
}


// NOTE: the compiler should inline these constant values below and then remove them if these
variables, so there should be no runtime penalty for these.

/**
 * Number used repeated below in calculations.
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_48_DBL_ = Kotlin.Long.TWO_PWR_32_DBL_ / 2;

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */

/**
 * @type {number}
 * @private
 */
Kotlin.Long.TWO_PWR_63_DBL_ = Kotlin.Long.TWO_PWR_64_DBL_ / 2;

/** @type {!Kotlin.Long} */
Kotlin.Long.ZERO = Kotlin.Long.fromInt(0);

/** @type {!Kotlin.Long} */
Kotlin.Long.ONE = Kotlin.Long.fromInt(1);

/** @type {!Kotlin.Long} */
Kotlin.Long.NEG_ONE = Kotlin.Long.fromInt(-1);

/** @type {!Kotlin.Long} */
Kotlin.Long.MAX_VALUE = Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);

/** @type {!Kotlin.Long} */
Kotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);

/** @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 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. In case of a negative value, the returned number of bits is the high 32-bits as
 * an unsigned value. In case of a positive value, the returned number of bits is the low 32-bits
 * as a signed value.
 * @param {number=} opt_number The number of bits to return. If not specified, Returns the low
 * 32-bits as a signed value.
 * @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 this.low_.getNumBits();
      } else {
        var number = this.negate();
        var high = number.getHighBits();
        var low = number.getLowBits();
        var num = high.getNumBits() + low.getNumBits();
        return num;
      }
    } else {
      var num = this.getLowBitsUnsigned().getNumBits();
      return num;
    }
  }

/**
 * @param {number=} opt_radix The radix in which the text should be written.
 * @return {string} The textual representation of this value. If the given radix is
 * out of range, returns a 0.
 */
Kotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (this.isZero()) {
    return '0';
  }

  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return '0';
    } else {
      return '-' + this.toString(radix);
    }
  }

  // Do several (6) 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, 6));
  var rem = div.multiply(radixToPower).subtract(this);
  var result = div.toString(radix) + rem.toInt().toString(radix);
  return result;
};

/** @return {number} The closest floating-point representation to this value. */
Kotlin.Long.prototype.toNumber = function() {
  return this.getLowBitsUnsigned().toString(radix);
};

/** @return {number} The 32-bit hashCode of this value. */
Kotlin.Long.prototype.hashCode = function() {
  return this.getLowBitsUnsigned().hashCode();
};

/**
 * @param {number=} opt_radix The radix in which the text should be written.
 * @return {string} The textual representation of this value.
 */
Kotlin.Long.prototype.toString = function(opt_radix) {
  var radix = opt_radix || 10;
  if (radix < 2 || 36 < radix) {
    throw Error('radix out of range: ' + radix);
  }

  if (this.isZero()) {
    return '0';
  }

  if (this.isNegative()) {
    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {
      return '0';
    } else {
      return '-' + this.toString(radix);
    }
  }

  // Do several (6) 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, 6));
  var rem = div.multiply(radixToPower).subtract(this);
  var result = div.toString(radix) + rem.toInt().toString(radix);
  return result;
};
(this.equalsLong(Kotlin.Long.MIN_VALUE)) { \n  return 64; } else { \n  return this.negate().getNumBitsAbs(); } \n } else { \n  var val = this high_ != 0 ? this high_ : this low_; \n  for (var bit = 31; bit > 0; bit--) { \n    if (((val & (1 << bit)) != 0)) { \n      break; \n    } \n  } \n  return this high_ != 0 ? bit + 33 : bit + 1; } \n }\n
/** @return {boolean} Whether this value is negative. */
Kotlin.Long.prototype.isNegative = function() { \n  return this high_ <= 0; \n }\n
/** @return {boolean} Whether this value is odd. */
Kotlin.Long.prototype.isOdd = function() { \n  return this.low_ & 1 \n};\n
/** @return {boolean} Whether this Long equals the other. */
Kotlin.Long.prototype.equalsLong = function(other) { \n  return (this high_ == other high_) \n  && (this low_ == other low_); \n }\n
/** @return {boolean} Whether this Long does not equal the other. */
Kotlin.Long.prototype.notEqualsLong = function(other) { \n  return (this high_ != other high_) \n  || (this low_ != other low_); \n }\n
/** @return {boolean} Whether this Long is less than or equal to the other. */
Kotlin.Long.prototype.lessThanOrEqual = function(other) { \n  return this.compare(other) <= 0; \n }\n
/** @return {boolean} Whether this Long is greater than or equal to the other. */
Kotlin.Long.prototype.greaterThanOrEqual = function(other) { \n  return this.compare(other) >= 0; \n }\n
/** @return {number} The sum of this and the given one. */
Kotlin.Long.prototype.add = function(other) { \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  var b48 = other high_ >>> 16; \n  var b32 = other high_ & 0xFFFF; \n  var b16 = other low_ >>> 16; \n  var b00 = other low_ & 0xFFFF; \n  var c48 = 0; \n  var c32 = 0; \n  var c16 = 0; \n  var c00 = 0; \n  var c00 += a00 + b00; \n  var c16 += c00 >>> 16; \n  var c16 &= 0xFFFF; \n  var c32 += c16 >>> 16; \n  var c32 &= 0xFFFF; \n  var c48 += c32 + b32; \n  var c48 &= 0xFFFF; \n  var return Kotlin.Long.fromBits(c48, c48 & 0xFFFF); \n }\n
/** @return {Kotlin.Long} The negation of this value. */
Kotlin.Long.prototype.negative = function() { \n  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) { \n    return Kotlin.Long.MIN_VALUE; \n  } else { \n    return this.add(Kotlin.Long.ONE); \n  }\n}
(other.isNegative()) {
    return this.multiply(other.negate()).negate();
} else if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &
    other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
    return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());
} else { // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.
    var a48 = this.high_ >>> 16; var a32 = this.high_ & 0xFFFF;
    var a16 = this.low_ >>> 16; var a00 = this.low_ & 0xFFFF;
    var b48 = other.high_ >>> 16; var b32 = other.high_ & 0xFFFF;
    var b16 = other.low_ >>> 16; var b00 = other.low_ & 0xFFFF;
    if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&
        other.lessThan(Kotlin.Long.TWO_PWR_24_)) {
        return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);
    } else { // Repeat the following until the remainder is less than other:  find a
        // floating-point that approximates remainder / other *from below*, add this
        // into the result, and subtract it from the remainder.  It is critical that
        // the approximate value is less than or equal to the real value so that the
        // remainder never becomes negative.
        var rem = this.subtract(other.multiply(approx));
        while (rem.greaterThanOrEqual(other)) {
            var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));
            var result = approx.add(rem.subtract(approx.multiply(other)));
            rem = result;
        }
        return result;
    }
}
/**
 * Returns the bitwise-OR of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to OR.
 * @return {!Kotlin.Long} The bitwise-OR of this and the other.
 */
Kotlin.Long.prototype.or = function(other) {
  return Kotlin.Long.fromBits(this.low_ | other.low_,
                                 this.high_ | other.high_);
};

/**
 * Returns the bitwise-XOR of this Long and the given one.
 * @param {Kotlin.Long} other The Long with which to XOR.
 * @return {!Kotlin.Long} The bitwise-XOR of this and the other.
 */
Kotlin.Long.prototype.xor = function(other) {
  return Kotlin.Long.fromBits(this.low_ ^ other.low_,
                                 this.high_ ^ other.high_);
};

/**
 * Returns this Long with bits shifted to the left by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the left by the given amount.
 */
Kotlin.Long.prototype.shiftLeft = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var low = this.low_;
    if (numBits < 32) {
      var high = this.high_;
      return Kotlin.Long.fromBits(
          low << numBits,
          (high << numBits) | (low >>> (32 - numBits)));
    } else {
      return Kotlin.Long.fromBits(0, low << (numBits - 32));
    }
  }
};

/**
 * Returns this Long with bits shifted to the right by the given amount.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the right by the given amount.
 */
Kotlin.Long.prototype.shiftRight = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var high = this.high_;
    if (numBits < 32) {
      var low = this.low_;
      return Kotlin.Long.fromBits(
          (low >>> numBits) | (high << (32 - numBits)),
          high >> numBits);
    } else if (numBits == 32) {
      return Kotlin.Long.fromBits(high, 0);
    } else {
      return Kotlin.Long.fromBits(high >> (numBits - 32),
                                 high >>> numBits);
    }
  }
};

/**
 * Returns this Long with bits shifted to the right by the given amount,
 * with zeros placed into the new leading bits.
 * @param {number} numBits The number of bits by which to shift.
 * @return {!Kotlin.Long} This shifted to the right by the given amount,
 * with zeros placed into the new leading bits.
 */
Kotlin.Long.prototype.shiftRightUnsigned = function(numBits) {
  numBits &= 63;
  if (numBits == 0) {
    return this;
  } else {
    var low = this.low_;
    if (numBits < 32) {
      var high = this.high_;
      return Kotlin.Long.fromBits(
          (low >>> numBits) | (high << (32 - numBits)),
          high >>> numBits);
    } else if (numBits == 32) {
      return Kotlin.Long.fromBits(high, 0);
    } else {
      return Kotlin.Long.fromBits(high >> (numBits - 32), 0);
    }
  }
};
throwMarkerError();

Kotlin.setCoroutineResult = function(value, qualifier) {
    return new Error("This marker function should never be called. " + 
    "Looks like compiler did not eliminate it properly. " + 
    "Please, report an issue if you caught this exception."");
}

Kotlin.getFunctionById = function(id, defaultValue) {
    return function() {
        return defaultValue;
    }
}

Kotlin.compareTo = function(a, b) {
    var typeA = typeof a;
    if (typeA === 'number') {
        if (typeof b === 'number') {
            return Kotlin.doubleCompareTo(a, b);
        }
        return Kotlin.primitiveCompareTo(a, b);
    }
    if (typeA === 'string' || typeA === 'boolean') {
        return Kotlin.primitiveCompareTo(a, b);
    }
    return a.compareTo_11rb$(b);
}

Kotlin.primitiveCompareTo = function(a, b) {
    return a < b ? -1 : a > b ? 1 : 0;
}

Kotlin.doubleCompareTo = function(a, b) {
    if (a < b) return -1;
    if (a > b) return 1;
    return a !== a ? (b !== b ? 0 : 1) : -1;
}

Kotlin.charInc = function(value) {
    return Kotlin.toChar(value+1);
}

Kotlin.charDec = function(value) {
    return Kotlin.toChar(value-1);
}

Kotlin.imulEmulated = imul;

if (typeof Math.sign === 'undefined') {
    Math.sign = function(x) {
        x = +x;
        if (x === 0 || isNaN(x)) {
            return Number(x);
        }
        return x > 0 ? 1 : -1;
    };
}

if (typeof Math.trunc === 'undefined') {
    Math.trunc = function(x) {
        if (isNaN(x)) {
            return NaN;
        }
        if (x > 0) {
            return Math.floor(x);
        }
        return Math.ceil(x);
    };
}

(function() {
    var epsilon = 2.220446049250313E-16;
    var taylor_2_bound = Math.sqrt(epsilon);
    var taylor_n_bound = Math.sqrt(taylor_2_bound);
    var upper_taylor_2_bound = 1/taylor_2_bound;
    var upper_taylor_n_bound = 1/taylor_n_bound;

    if (typeof Math.sinh === 'undefined') {
        Math.sinh = Math.sinh;
    }

    String.prototype.startsWith = function(searchString, position) {
        position = position || 0;
        return this.lastIndexOf(searchString, position) === position;
    };

    String.prototype.endsWith = function(searchString, position) {
        var subjectString = this.toString();
        if (position === undefined || position > subjectString.length) {
            position = subjectString.length;
        }
        position -= searchString.length;
        var lastIndex = subjectString.indexOf(searchString, position);
        return lastIndex !== -1;
    };

    var subjectString = this.toString();
    if (position === undefined || position > subjectString.length) {
        position = subjectString.length;
    }
    position -= searchString.length;
    var lastIndexOfSearchString = subjectString.indexOf(searchString, position);
    return lastIndexOfSearchString === -1 && lastIndexOfSearchString === position;
}

Math.polyfills = Math.polyfills;

if (typeof Math.sign === 'undefined') {
    Math.sign = function(x) {
        x = +x;
        if (x === 0 || isNaN(x)) {
            return Number(x);
        }
        return x > 0 ? 1 : -1;
    };
}

if (typeof Math.trunc === 'undefined') {
    Math.trunc = function(x) {
        if (isNaN(x)) {
            return NaN;
        }
        if (x > 0) {
            return Math.floor(x);
        }
        return Math.ceil(x);
    };
}

var Math.sinh = Math.sinh;

if (typeof Math.sign === 'undefined') {
    Math.sign = function(x) {
        x = +x;
        if (x === 0 || isNaN(x)) {
            return Number(x);
        }
        return x > 0 ? 1 : -1;
    };
}

if (typeof Math.trunc === 'undefined') {
    Math.trunc = function(x) {
        if (isNaN(x)) {
            return NaN;
        }
        if (x > 0) {
            return Math.floor(x);
        }
        return Math.ceil(x);
    };
}

var Math.sinh = Math.sinh;
PhantomJs

```javascript
if (typeof ArrayBuffer.isView === "undefined") {
    ArrayBuffer.isView = function(a) {
      return a !== null && a._proto_ !== null && a._proto_._proto_ === Int8Array.prototype._proto_;
    }
}

if (typeof Array.prototype.fill === "undefined") {
    Array.prototype.fill = function() {
      var start = arguments[0];
      var end = arguments[1];
      for (var i = start; i < end; i++) {
        this[i] = arguments[2];
      }
    };
}

(function() {
    function normalizeOffset(offset, length) {
        if (offset < 0) return Math.max(0, offset + length);
        return Math.min(offset, length);
    }
    function typedArraySlice(begin, end) {
        if (typeof end === "undefined") {
            end = this.length;
        }
        begin = normalizeOffset(begin || 0, this.length);
        end = Math.max(begin, normalizeOffset(end, this.length));
        return new this.constructor(this.subarray(begin, end));
    }

    var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];
    for (var i = 0; i < arrays.length; ++i) {
        var TypedArray = arrays[i];
        if (typeof TypedArray.prototype.fill === "undefined") {
            TypedArray.prototype.fill = Array.prototype.fill;
        }
        if (typeof TypedArray.prototype.slice === "undefined") {
            Object.defineProperty(TypedArray.prototype, 'slice', {
                value: typedArraySlice
            });
        }
    }

    // Patch apply to work with TypedArrays if needed.
    try {
        (function() {}).apply(null, new Int32Array(0))
    } catch (e) {
        var apply = Function.prototype.apply;
        Object.defineProperty(Function.prototype, 'apply', {
            value: function(self, array) {
                return apply.call(this, self, array)
            }
        });
    }

    // Patch map to work with TypedArrays if needed.
    for (var i = 0; i < arrays.length; ++i) {
        var TypedArray = arrays[i];
        if (typeof TypedArray.prototype.map === "undefined") {
            Object.defineProperty(TypedArray.prototype, 'map', {
                value: function(callback, self) {
                    return [].slice.call(this).map(callback, self);
                }
            });
        }
    }

    // Patch sort to work with TypedArrays if needed.
    // TODO: consider to remove following function and replace it with 'Kotlin.doubleCompareTo' (see misc.js)
    var totalOrderComparator = function (a, b) {
        if (a < b) return -1;
        if (a > b) return 1;
        if (a === b) {
            if (a !== 0) return 0;
            var ia = 1 / a;
            return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);
        }
        return a !== a ? (b !== b ? 0 : 1) : -1
    };

    for (var i = 0; i < arrays.length; ++i) {
        var TypedArray = arrays[i];
        if (typeof TypedArray.prototype.sort === "undefined") {
            Object.defineProperty(TypedArray.prototype, 'sort', {
                value: function(compareFunction) {
                    return Array.prototype.sort.call(this, compareFunction);
                }
            });
        }
    }
})();
```

/*
 * 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.
 * 
 * \* An\n * \* Kotlin.Kind = \{ \n * CLASS: \"class\", \n * INTERFACE: \"interface\", \n * OBJECT: \\
 * \"object\" \}
 */
```

Kotlin.callGetter = function (thisObject, klass, propertyName) {
    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);
    if (propertyDescriptor) {
        if (propertyDescriptor.isFunction) {
            return propertyDescriptor.call(thisObject);
        }
        if (propertyDescriptor.get !== null) {
            return propertyDescriptor.get.call(thisObject);
        }
        if (propertyDescriptor.set !== null) {
            return propertyDescriptor.set.call(thisObject, propertyValue);
        }
        if (propertyDescriptor.value !== null) {
            return propertyDescriptor.value;
        }
    }
    return Kotlin.callSetter(thisObject, propertyName);
```
Object.getPrototypeOf(klass), propertyName, value);\n\nfunction isInheritanceFromInterface(ctor, iface) {\n    if (ctor !== iface) return false;\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        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    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 * @param {*} object\n * @param {Function|Object} klass\n * @returns {Boolean}\n */
Kotlin.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.constructor !== null ? proto.constructor : null;\n    if (constructor != null) {\n        var klassMetadata = klass.$metadata$;\n        if (klassMetadata !== null) {\n            var metadata = constructor.$metadata$;\n            if (metadata.kind === Kotlin.Kind.OBJECT) {\n                return true;\n            }\n            var klassMetaClass = klass.$metaClass$;\n            if (klassMetaClass !== null) {\n                for (var i = 0; i < klassMetaClass.interfaces.length; i++) {\n                    if (isInheritanceFromInterface(klassMetaClass.interfaces[i], klass)) {\n                        return true;\n                    }\n                }\n            }\n        }\n    }\n    var superPrototype = constructor.prototype !== null ? Object.getPrototypeOf(constructor.prototype) : null;\n    var superConstructor = superPrototype !== null ? superPrototype.constructor : null;\n    return superConstructor !== null &
        isInheritanceFromInterface(superConstructor, klass);\n}\n
Kotlin.isNumber = function (a) {\n    return typeof a == "number" || a instanceof Kotlin.Long;\n};

Kotlin.isChar = function (value) {\n    return value instanceof Kotlin.BoxedChar;\n};

Kotlin.isComparable = function (value) {\n    var type = typeof value;\n    return type === "string" ||
        type === "boolean" ||
        Kotlin.isNumber(value) ||
        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};

Kotlin.isCharSequence = function (value) {\n    return typeof value === "string" ||\n        Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};

Kotlin.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.constructor !== null ? proto.constructor : null;\n    if (constructor != null) {\n        var klassMetadata = klass.$metadata$;\n        if (klassMetadata !== null) {\n            var metadata = constructor.$metadata$;\n            if (metadata.kind === Kotlin.Kind.OBJECT) {\n                return true;\n            }\n            var klassMetaClass = klass.$metaClass$;\n            if (klassMetaClass !== null) {\n                for (var i = 0; i < klassMetaClass.interfaces.length; i++) {\n                    if (isInheritanceFromInterface(klassMetaClass.interfaces[i], klass)) {\n                        return true;\n                    }\n                }\n            }\n        }\n    }\n    var superPrototype = constructor.prototype !== null ? Object.getPrototypeOf(constructor.prototype) : null;\n    var superConstructor = superPrototype !== null ? superPrototype.constructor : null;\n    return superConstructor !== null &
        isInheritanceFromInterface(superConstructor, klass);\n};

Kotlin.isNumber = function (a) {\n    return typeof a == "number" || a instanceof Kotlin.Long;\n};

Kotlin.isChar = function (value) {\n    return value instanceof Kotlin.BoxedChar;\n};

Kotlin.isComparable = function (value) {\n    var type = typeof value;\n    return type === "string" ||
        type === "boolean" ||
        Kotlin.isNumber(value) ||
        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};

Kotlin.isCharSequence = function (value) {\n    return typeof value === "string" ||\n        Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};

Kotlin.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.constructor !== null ? proto.constructor : null;\n    if (constructor != null) {\n        var klassMetadata = klass.$metadata$;\n        if (klassMetadata !== null) {\n            var metadata = constructor.$metadata$;\n            if (metadata.kind === Kotlin.Kind.OBJECT) {\n                return true;\n            }\n            var klassMetaClass = klass.$metaClass$;\n            if (klassMetaClass !== null) {\n                for (var i = 0; i < klassMetaClass.interfaces.length; i++) {\n                    if (isInheritanceFromInterface(klassMetaClass.interfaces[i], klass)) {\n                        return true;\n                    }\n                }\n            }\n        }\n    }\n    var superPrototype = constructor.prototype !== null ? Object.getPrototypeOf(constructor.prototype) : null;\n    var superConstructor = superPrototype !== null ? superPrototype.constructor : null;\n    return superConstructor !== null &
        isInheritanceFromInterface(superConstructor, klass);\n};

Kotlin.isNumber = function (a) {\n    return typeof a == "number" || a instanceof Kotlin.Long;\n};

Kotlin.isChar = function (value) {\n    return value instanceof Kotlin.BoxedChar;\n};

Kotlin.isComparable = function (value) {\n    var type = typeof value;\n    return type === "string" ||
        type === "boolean" ||
        Kotlin.isNumber(value) ||
        Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};

Kotlin.isCharSequence = function (value) {\n    return typeof value === "string" ||\n        Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};
return get(0) // Returns 1st *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun BooleanArray.component1(): Boolean {
    return get(0) // Returns 1st *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun CharArray.component1(): Char {
    return get(0) // Returns 1st *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun <T> Array<out T>.component2(): T {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ByteArray.component2(): Byte {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ShortArray.component2(): Short {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun IntArray.component2(): Int {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun FloatArray.component2(): Float {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun DoubleArray.component2(): Double {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun BooleanArray.component2(): Boolean {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun CharArray.component2(): Char {
    return get(1) // Returns 2nd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun <T> Array<out T>.component3(): T {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ByteArray.component3(): Byte {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ShortArray.component3(): Short {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun IntArray.component3(): Int {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun FloatArray.component3(): Float {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun DoubleArray.component3(): Double {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun BooleanArray.component3(): Boolean {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun CharArray.component3(): Char {
    return get(2) // Returns 3rd *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun <T> Array<out T>.component4(): T {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ByteArray.component4(): Byte {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ShortArray.component4(): Short {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun IntArray.component4(): Int {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun FloatArray.component4(): Float {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun DoubleArray.component4(): Double {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun BooleanArray.component4(): Boolean {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun CharArray.component4(): Char {
    return get(3) // Returns 4th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun <T> Array<out T>.component5(): T {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ByteArray.component5(): Byte {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun ShortArray.component5(): Short {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun IntArray.component5(): Int {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun FloatArray.component5(): Float {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun DoubleArray.component5(): Double {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun BooleanArray.component5(): Boolean {
    return get(4) // Returns 5th *element* from the collection.
*\n@kotlin.internal.InlineOnly\n\n*public inline operator fun CharArray.component5(): Char {
    return get(4) // Returns 5th *element* from the collection.
}
operator fun ByteArray.component5(): Byte {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun ShortArray.component5(): Short {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun IntArray.component5(): Int {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun LongArray.component5(): Long {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun FloatArray.component5(): Float {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun DoubleArray.component5(): Double {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun BooleanArray.component5(): Boolean {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun CharArray.component5(): Char {
    return get(4)
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ByteArray.contains(element: Byte): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun ShortArray.contains(element: Short): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun IntArray.contains(element: Int): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun LongArray.contains(element: Long): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun FloatArray.contains(element: Float): Boolean {
    return indexOf(element) >= 0
}

/**
 * Returns `true` if [element] is found in the array.
 */
public operator fun DoubleArray.contains(element: Double): Boolean {
    return indexOf(element) >= 0
}

/**
 * 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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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.

```kotlin
@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)
}
```

```kotlin
ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

```kotlin
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```
IntArray.elementAtOrNull(index: Int): Int? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.elementAtOrNull(index: Int): Long? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.elementAtOrNull(index: Int): Float? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.elementAtOrNull(index: Int): Double? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.elementAtOrNull(index: Int): Char? {
    return this.getOrNull(index)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {
    return firstOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@kotlin.internal.InlineOnly
public inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

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Boolean): Long? {  
    return lastOrNull(predicate)  
}

public fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {
    return lastOrNull(predicate)
}

/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 */
public fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {
    return lastOrNull(predicate)
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun <T> Array<out T>.first(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun ByteArray.first(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun ShortArray.first(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun IntArray.first(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun LongArray.first(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun FloatArray.first(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun DoubleArray.first(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun BooleanArray.first(): Boolean {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns first element.
 * @throws NoSuchElementException if the array is empty.
 */
public fun CharArray.first(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[0]
}

/**
 * Returns the first element matching the given [predicate].
 * @throws NoSuchElementException if no such element is found.
 */
public fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {
    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 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 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 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 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 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 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 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 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.")
}
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 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 the first element, or `null` if the array is empty.
 */
public fun LongArray.firstOrNull(): Long? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun FloatArray.firstOrNull(): Float? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun DoubleArray.firstOrNull(): Double? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun BooleanArray.firstOrNull(): Boolean? {
    return if (isEmpty()) null else this[0]
}

/**
 * Returns the first element, or `null` if the array is empty.
 */
public fun CharArray.firstOrNull(): Char? {
    return if (isEmpty()) null else this[0]
}
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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun <T> Array<out T>.getOrElse(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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {
    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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {
    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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {
    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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {
    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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {
    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.

```kotlin
@kotlin.internal.InlineOnly
public inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {
    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun ShortArray.getOrNull(index: Int): Short? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun IntArray.getOrNull(index: Int): Int? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun LongArray.getOrNull(index: Int): Long? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun FloatArray.getOrNull(index: Int): Float? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun DoubleArray.getOrNull(index: Int): Double? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun BooleanArray.getOrNull(index: Int): Boolean? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.

```kotlin
@kotlin.internal.InlineOnly
public inline fun CharArray.getOrNull(index: Int): Char? {
    return if (index >= 0 && index <= lastIndex) get(index) else null
}
```

Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
public fun <T> Array<out T>.last(): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public 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 last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
    for (index in indices.reversed()) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

/**
 * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.
 */
public fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    for (index in indices) {
        if (predicate(this[index])) {
            return index
        }
    }
    return -1
}

*/

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ByteArray.last(): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun CharArray.last(): Char {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun DoubleArray.last(): Double {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun FloatArray.last(): Float {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun IntArray.last(): Int {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun LongArray.last(): Long {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the array is empty.
 */
public fun ShortArray.last(): Short {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
}

*/
CharArray.last(): Char
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]

CharArray.last(): Int
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]

CharArray.last(): Long
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]

CharArray.last(): Float
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]

CharArray.last(): Double
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]

CharArray.last(): Boolean
    if (isEmpty())
    throw NoSuchElementException("Array is empty.")
    return this[lastIndex]
returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n
LongArray.lastIndexOf(element: Long): Int \n  return index
  return -1\n
FloatArray.lastIndexOf(element: Float): Int \n  return index
  return -1\n
DoubleArray.lastIndexOf(element: Double): Int \n  return index
  return -1\n
CharArray.lastIndexOf(element: Char): Int \n  return index
  return -1\n
IntArray.lastIndexOf(element: Int): Int \n  return index
  return -1\n
CharArray

ByteArray

CharArray

ByteArray
last element matching the given [predicate], or `null` if no such element was found.

```kotlin
public inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

public inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

public inline fun Random.random(): Number {
    return random(Random)
}

public inline fun <T> Array<out T>.random(random: Random): T {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

@SinceKotlin("1.3") public fun ByteArray.random(random: Random): Byte {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}
```

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matching element.*/
 }

 @}public inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {
    var single: Byte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw
                IllegalArgumentException("Array contains more than one matching element.
" + "found = true\n            } else if (found) throw
                    NoSuchElementException("Array contains no element matching the predicate.
" + "single = element\n    found = true\n    } else if (found) throw
                        NoSuchElementException("Array contains no element matching the predicate.
" + "single = element\n    found = true\n    } else if (found) throw
                        NoSuchElementException("Array contains no element matching the predicate.
" + "single = element\n    found = true\n    } else if (found) throw
                        NoSuchElementException("Array contains no element matching the predicate.
" + "single = element\n    found = true\n    } else if (found) throw
                        NoSuchElementException("Array contains no element matching the predicate.
" + "single = element\n    found = true\n    } else if (found) throw
                        NoSuchElementException("Array contains no element matching

single element matching the given [predicate], or 'null' if element was not found or more than one element was
found.

```java
public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = 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
}
```

`singleOrNull` *Returns a list containing all elements except first [n] elements.*

```java
public inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {
    var single: Char? = 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
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun <T> Array<out T>.drop(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun ByteArray.drop(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun ShortArray.drop(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun IntArray.drop(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun LongArray.drop(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun FloatArray.drop(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun DoubleArray.drop(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun BooleanArray.drop(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`drop(n)` *Returns a list containing all elements except first [n] elements.*

```java
public fun CharArray.drop(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun <T> Array<out T>.dropLast(n: Int): List<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun ByteArray.dropLast(n: Int): List<Byte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun ShortArray.dropLast(n: Int): List<Short> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun IntArray.dropLast(n: Int): List<Int> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun LongArray.dropLast(n: Int): List<Long> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun FloatArray.dropLast(n: Int): List<Float> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun DoubleArray.dropLast(n: Int): List<Double> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun BooleanArray.dropLast(n: Int): List<Boolean> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```

`dropLast(n)` *Returns a list containing all elements except last [n] elements.*

```java
public fun CharArray.dropLast(n: Int): List<Char> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return take((size - n).coerceAtLeast(0))
}
```
except last elements that satisfy the given [predicate].

samples.collections.Collections.Transformations.drop

*\/*public inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}

*\/*public inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {
    \n    for (index in lastIndex downTo 0) {
        \n        if (!predicate(this[index])) {
            \n            return emptyList().\n            \n        } \n    } \n    return emptyList().\n    \n}
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.

* /\n
### Open Source Used In UCM Cloud Analyzer Service 1.0

```kotlin
public inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {
    return filterIndexedTo(ArrayList<Double>(), 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.

* /\n
### BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
    return filterIndexedTo(ArrayList<Boolean>(), 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.

* /\n
### CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {
    return filterIndexedTo(ArrayList<Char>(), 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.

* /\n
### ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> 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.

* /\n
### ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> 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.

* /\n
### IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> 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.

* /\n
### LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> 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.

* /\n
### FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> 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.

* /\n
### DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {
    forEachIndexed {
        index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}
BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Array.filterIsInstance<R>(): List<R> {
    return filterIsInstanceTo(ArrayList<R>(), R::class)
}

Array.filterIsInstanceTo(destination: C, predicate: (R) -> Boolean): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

Array.filterNot<R>(): List<R> {
    return filterNotTo(ArrayList<R>(), R::class)
}

Array.filterNotTo(destination: C, predicate: (R) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

CharArray.all<R>(predicate: (index: Int, Char) -> Boolean): Boolean {
    for (index in 0 until array.size)
        if (!predicate(index, array[index])) return false
    return true
}

CharArray.any<R>(predicate: (index: Int, Char) -> Boolean): Boolean {
    for (index in 0 until array.size)
        if (predicate(index, array[index])) return true
    return false
}

CharArray.contains<R>(predicate: (index: Int, Char) -> Boolean): Boolean {
    for (index in 0 until array.size)
        if (predicate(index, array[index])) return true
    return false
}

CharArray.containsAll<R>(array: Array<R>): Boolean {
    for (index in 0 until array.size)
        if (!array[index] in characters) return false
    return true
}

CharArray.filter<R>(): List<R> {
    return filterTo(ArrayList<R>(), predicate: R::class)
}

CharArray.filterTo(destination: C, predicate: (R) -> Boolean): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

CharArray.filterNot<R>(): List<R> {
    return filterNotTo(ArrayList<R>(), predicate: R::class)
}

CharArray.filterNotTo(destination: C, predicate: (R) -> Boolean): C {
    for (element in this) if (!element is R) destination.add(element)
    return destination
}

CharArray.map<R>(mapper: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(), mapper: Char::mapper)
}

CharArray.mapTo(destination: C, mapper: (Char) -> R): C {
    for (element in this) destination.add(R(mapper(element)))
    return destination
}

CharArray.mapIndexed<R>(mapper: (index: Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(), mapper)
}

CharArray.mapIndexedTo(destination: C, mapper: (index: Int, Char) -> R): C {
    for (index in 0 until characters.size)
        destination.add(R(mapper(index, characters[index])))
    return destination
}

CharArray.lowerCase(): CharArray {
    return lowerCaseTo(ArrayList<Char>())
}

CharArray.lowerCaseTo(destination: C): C {
    for (element in this) destination.add(Char(lowerCase(element)))
    return destination
}

CharArray.shuffle<R>(shuffler: (Int) -> R): List<R> {
    return shuffleTo(ArrayList<R>(), shuffler: Int::shuffler)
}

CharArray.shuffleTo(destination: C, shuffler: (Int) -> R): C {
    for (index in 0 until characters.size)
        destination.add(R(shuffler(index, characters[index])))
    return destination
}

CharArray.sort(): CharArray {
    return sortTo(ArrayList<Char>)(characterComparator)
}

CharArray.sortTo(destination: C, comparator: Comparator<Char>): C {
    for (element in this) destination.add(C(element, comparator))
    return destination
}

CharArray.substringFrom(from: Int, to: Int): CharArray {
    return substringFromTo(from, to, ArrayList<Char>())
}

CharArray.substringFromTo(from: Int, to: Int, destination: C): C {
    for (index in from until to)
        destination.add(Character(characters[index]))
    return destination
}

CharArray.toCollection(): List<Char> {
    return toCollection(ArrayList<Char>())
}

CharArray.toCollection(destination: C): C {
    for (element in this) destination.add(Char(element))
    return destination
}

CharArray.toMutableCollection(): List<Char> {
    return toMutableCollection(ArrayList<Char>())
}

CharArray.toMutableCollection(destination: C): C {
    for (element in this) destination.add(Char(element))
    return destination
}

CharArray.toString(): String {
    return toString(ArrayList<Char>())
}

CharArray.toString(destination: C): C {
    for (element in this) destination.add(Char(element))
    return destination
}
fun IntArray.slice(indices: IntRange): List<Int> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun LongArray.slice(indices: IntRange): List<Long> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun FloatArray.slice(indices: IntRange): List<Float> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun DoubleArray.slice(indices: IntRange): List<Double> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun BooleanArray.slice(indices: IntRange): List<Boolean> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun CharArray.slice(indices: IntRange): List<Char> { 
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<T>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun ByteArray.slice(indices: Iterable<Int>): List<Byte> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Byte>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun ShortArray.slice(indices: Iterable<Int>): List<Short> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Short>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun IntArray.slice(indices: Iterable<Int>): List<Int> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Int>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun LongArray.slice(indices: Iterable<Int>): List<Long> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Long>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun FloatArray.slice(indices: Iterable<Int>): List<Float> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Float>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun DoubleArray.slice(indices: Iterable<Int>): List<Double> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Double>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Boolean>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun CharArray.slice(indices: Iterable<Int>): List<Char> { 
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<Char>(size)
    for (index in indices) { 
        list.add(get(index))
    }
    return list
}

fun <T> Array<out T>.sliceArray(indices: Collection<Int>): Array<T> { 
    val result = arrayOfNulls<T>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray { 
    val result = arrayOfNulls<Byte>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray { 
    val result = arrayOfNulls<Short>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun IntArray.sliceArray(indices: Collection<Int>): IntArray { 
    val result = arrayOfNulls<Int>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun LongArray.sliceArray(indices: Collection<Int>): LongArray { 
    val result = arrayOfNulls<Long>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray { 
    val result = arrayOfNulls<Float>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray { 
    val result = arrayOfNulls<Double>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray { 
    val result = arrayOfNulls<Boolean>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}

fun CharArray.sliceArray(indices: Collection<Int>): CharArray { 
    val result = arrayOfNulls<Char>(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) { 
        result[targetIndex++] = get(sourceIndex)
    }
    return result
}
class Array<T> {
    fun take(n: Int): List<T> {
        require(n >= 0) { "Requested element count $n is less than zero." }
        if (n == 0) return emptyList()
        if (n >= samples COLLECTIONS.transformations.take
 */
public fun <T> Array<out T>.take(n: Int): List<T> {

@throws IllegalArgumentException if [n] is negative.
*
* @sample
* CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}
}

public fun IntArray.sliceArray(indices: Collection<Int>): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun LongArray.sliceArray(indices: Collection<Int>): LongArray {
    val result = LongArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {
    val result = DoubleArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {
    val result = FloatArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {
    val result = ShortArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {
    val result = BooleanArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {
    val result = ByteArray(indices.size)
    var targetIndex = 0
    for (sourceIndex in indices) {
        result[targetIndex++] = this[sourceIndex]
    }
    return result
}

public fun CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun IntArray.sliceArray(indices: IntRange): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    if (indices.isEmpty()) return FloatArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    if (indices.isEmpty()) return ShortArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    if (indices.isEmpty()) return BooleanArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    if (indices.isEmpty()) return ByteArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun IntArray.sliceArray(indices: IntRange): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    if (indices.isEmpty()) return FloatArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    if (indices.isEmpty()) return ShortArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    if (indices.isEmpty()) return BooleanArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    if (indices.isEmpty()) return ByteArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun IntArray.sliceArray(indices: IntRange): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    if (indices.isEmpty()) return FloatArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    if (indices.isEmpty()) return ShortArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    if (indices.isEmpty()) return BooleanArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    if (indices.isEmpty()) return ByteArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun IntArray.sliceArray(indices: IntRange): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    if (indices.isEmpty()) return FloatArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    if (indices.isEmpty()) return ShortArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {
    if (indices.isEmpty()) return BooleanArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ByteArray.sliceArray(indices: IntRange): ByteArray {
    if (indices.isEmpty()) return ByteArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun CharArray.sliceArray(indices: IntRange): CharArray {
    if (indices.isEmpty()) return CharArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun IntArray.sliceArray(indices: IntRange): IntArray {
    if (indices.isEmpty()) return IntArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun FloatArray.sliceArray(indices: IntRange): FloatArray {
    if (indices.isEmpty()) return FloatArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}

public fun ShortArray.sliceArray(indices: IntRange): ShortArray {
    if (indices.isEmpty()) return ShortArray(0)
    return copyOfRange(indices.start, indices.endInclusive + 1)
}
a list containing first [n] elements.

```java
public fun <T> listOfFirst(n: Int): List<T> {
    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]).
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
```

Returns a list containing first [n] elements.

```java
public fun <T> take(n: Int): List<T> {
    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]).
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
```

Returns a list containing first [n] elements.

```java
public fun <T> listFirst(n: Int): List<T> {
    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<T>(n)
    for (item in this) {
        list.add(item)
        if (++count == n)
            break
    }
    return list
}
```

Returns a list containing first [n] elements.

```java
public fun <T> listLast(n: Int): List<T> {
    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<T>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}
```

Returns a list containing last [n] elements.
```java
/**
 * Returns a list containing last \[n\] elements satisfying the given \[predicate\].
 * 
 * @sample samples.collections.Collections.Transformations.take
 */
public static <T> List<T> takeLastWhile(T[] array, int n, Predicate<T> predicate)
{
    require(n > 0) {
        if (n <= 0) return emptyList().val
    }
    val size = array.size
    val list = ArrayList<T>(n)
    for (index in size - n until size)
    {
        list.add(array[index])
        return list
    }
    return emptyList().val
}
```
inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {
    if (!predicate(this[index])) {
        return drop(index + 1)
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun ShortArray.takeFirstWhile(predicate: (Short) -> Boolean): List<Short> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun IntArray.takeFirstWhile(predicate: (Int) -> Boolean): List<Int> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun LongArray.takeFirstWhile(predicate: (Long) -> Boolean): List<Long> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun FloatArray.takeFirstWhile(predicate: (Float) -> Boolean): List<Float> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun DoubleArray.takeFirstWhile(predicate: (Double) -> Boolean): List<Double> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun BooleanArray.takeFirstWhile(predicate: (Boolean) -> Boolean): List<Boolean> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun CharArray.takeFirstWhile(predicate: (Char) -> Boolean): List<Char> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun ByteArray.takeFirstWhile(predicate: (Byte) -> Boolean): List<Byte> {
    for (index in 0 upTo lastIndex) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {
    val list = ArrayList<Short>()
    for (item in this) {
        if (!predicate(item)) {
            break
        }
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {
    val list = ArrayList<Int>()
    for (item in this) {
        if (!predicate(item)) {
            break
        }
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {
    val list = ArrayList<Long>()
    for (item in this) {
        if (!predicate(item)) {
            break
        }
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {
    val list = ArrayList<Float>()
    for (item in this) {
        if (!predicate(item)) {
            break
        }
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing last elements satisfying the given [predicate].
 * 
 * @sample samples.collections.Transformations.take
 */
public inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {
    val list = ArrayList<Double>()
    for (item in this) {
        if (!predicate(item)) {
            break
        }
        list.add(item)
    }
    return list
}
return list

"**n" * Returns a list containing first elements satisfying the given [predicate].

* @sample

samples.collections.Collections.Transformations.take

//n * @sample

samples.collections.Collections.Transformations.take

//n * @sample

samples.collections.Collections.Transformations.take

//n * @sample

samples.collections.Collections.Transformations.take

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samples.collections.Collections.Transformations.take

//n * @sample

samples.collections.Collections.Transformations.take
```kotlin
public fun FloatArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun IntArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun ByteArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {
    if (size > 1) {
        sortWith(compareByDescending(selector))
    }
    return result
}

/**
 * Sorts elements in the array in-place descending according to their natural sort order.
 */
public fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) {
        sortBy(crossinline selector)
        reverse()
    }
    return result
}
```

LongArray {\n    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun FloatArray.sortedArrayDescending(): FloatArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun DoubleArray.sortedArrayDescending(): DoubleArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted descending according to their natural sort order.
 */
public fun CharArray.sortedArrayDescending(): CharArray {
    if (isEmpty()) return this
    return this.copyOf().apply { sortDescending() }
}

/**
 * Returns an array with all elements of this array sorted according the specified [comparator].
 * 
 * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
 */
public fun <T, R : Comparable<R>> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {
    if (isEmpty()) return this
    return this.copyOf().apply { sortWith(comparator) }
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {
    return sortedWith(compareBy(selector))
}

/**
 * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
 */
public inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {
    return sortedWith(compareBy(selector))
}
Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> { return sortedWith(compareByDescending(selector))
    * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.
    * In public inline fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> { return sortedArrayWith(reverseOrder())
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun ByteArray.sortedDescending(): List<Byte> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun ShortArray.sortedDescending(): List<Short> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun IntArray.sortedDescending(): List<Int> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun LongArray.sortedDescending(): List<Long> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun FloatArray.sortedDescending(): List<Float> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun DoubleArray.sortedDescending(): List<Double> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun BooleanArray.sortedDescending(): List<Boolean> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun CharArray.sortedDescending(): List<Char> { return toTypedArray().apply { sort() }.reversed().asList()
    * Returns a list of all elements sorted according to their natural sort order.
    * In public inline fun Comparable<R>> Array<out T>.sortedDescending(): List<T> { return sortedArrayWith(reverseOrder())
    * Returns a list of all elements sorted according to the specified [comparator].
    * In public inline fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> { return toTypedArray().apply { sortWith(comparator) }.asList()
    * Returns a list of all elements sorted according to the specified [comparator].
    * In public inline fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> { return toTypedArray().apply { sortWith(comparator) }.asList()
    * Returns a list of all elements sorted according to the specified [comparator].
    * In public inline fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> { return toTypedArray().apply { sortWith(comparator) }.asList()
    * Returns a list of all elements sorted according to the specified [comparator].
    * In public inline fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> { return toTypedArray().apply {
sortWith(comparator).asList()}.asList() Returns a list of all elements sorted according to the specified [comparator].

/**
 * 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 { sortWith(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 { sortWith(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 { sortWith(comparator) }.asList()
}

/**
 * Returns a list of all elements sorted according to the specified [comparator].
 */
public fun CharArray.sortedWith(comparator: Comparator<Char>): List<Char> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

/**
 * 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 `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.
 */
public expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean

/**
 * 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.
 */
public expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean

/**
 * 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.
 */
public expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean

/**
 * 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.
 */
public expect infix fun IntArray.contentEquals(other: IntArray): Boolean

/**
 * 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.
 */
public expect infix fun LongArray.contentEquals(other: LongArray): Boolean

/**
 * 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.
 */
public expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean

/**
 * 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.
 */
public expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean

/**
 * 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.
 */
public expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean

/**
 * 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.
 */
public expect infix fun CharArray.contentEquals(other: CharArray): Boolean

/**
 * Returns a hash code based on the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 */
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.
 */
public expect fun <T> Array<out T>.contentDeepToString(): String

/**
 * 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.
 */
public expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean

/**
 * Returns a hash code based on the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 */
public expect fun <T> Array<out T>.contentHashCode(): Int

/**
 * Returns a string representation of the contents of this array as if it is a [List].
 * Nested arrays are treated as lists too.
 */
public expect fun <T> Array<out T>.contentToString(): String
the same number of the same elements in the same order.

The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function. For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`. The elements are compared for equality with the `equals` function.
FloatArray.contentToString(): String\n
/**
 * Returns a string representation of the contents of the specified array as if it is [List].\n
 * @see Arrays.asList\n
 * @since 1.3
 */
public expect fun DoubleArray.contentToString(): String\n
/**
 * Returns a string representation of the contents of the specified array as if it is [List].\n
 * @see Arrays.asList\n
 * @since 1.3
 */
public expect fun BooleanArray.contentToString(): String\n
/**
 * Returns a string representation of the contents of the specified array as if it is [List].\n
 * @see Arrays.asList\n
 * @since 1.3
 */
public expect fun CharArray.contentToString(): String

/**
 * Copies this array or its subrange into the [destination] array and returns that array.\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
 * @param destination the array to copy to.\n
 * @param parameter destinationOffset the position in the [destination] array to copy to, 0 by default.\n
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n
 * @since 1.3
 */
public expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>
```kotlin
@SinceKotlin("1.3")
public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, 
startIndex: Int = 0, endIndex: Int = size): IntArray

@SinceKotlin("1.3")
public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray

@SinceKotlin("1.3")
public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray

@SinceKotlin("1.3")
public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray

@SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray
```

*An@SinceKotlin("1.3")*public expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, 
startIndex: Int = 0, endIndex: Int = size): IntArray

```kotlin
@SinceKotlin("1.3")
public expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray

@SinceKotlin("1.3")
public expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray

@SinceKotlin("1.3")
public expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray

@SinceKotlin("1.3")
public expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray
```
of the subrange to copy, size of this array by default. \* \n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentOutOfRangeException] 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 this index is out of the [destination] array indices range. \n * \n * @return the [destination] array. \n * \n * @SinceKotlin("1.3")
public expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startindex: Int = 0, endIndex: Int = size): CharArray

/**
 * Returns new array which is a copy of the original array. \n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@Suppress("NO_ACTUAL_FOR_EXPECT")
public expect fun <T> Array<T>.copyOf(): Array<T>

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun ByteArray.copyOf(newSize: Int): ByteArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun ShortArray.copyOf(newSize: Int): ShortArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun IntArray.copyOf(newSize: Int): IntArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun LongArray.copyOf(newSize: Int): LongArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun FloatArray.copyOf(newSize: Int): FloatArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun DoubleArray.copyOf(newSize: Int): DoubleArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun BooleanArray.copyOf(newSize: Int): BooleanArray

/**
 * Returns new array 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 the size of the original array, the copy array is truncated to the [newSize]. \n * \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
 */
public expect fun CharArray.copyOf(newSize: Int): CharArray

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If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with zero values.

The copy is either truncated or padded at the end with null char (`\u0000`) values if necessary.

If `newSize` is less than the size of the original array, the copy array is truncated to the given `newSize`.

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 if necessary.

If `newSize` is less than the size of the original array, the copy array is truncated to the given `newSize`.

If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.

If `newSize` is less than the size of the original array, the copy array is truncated to the given `newSize`.

If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.

If `newSize` is less than the size of the original array, the copy array is truncated to the given `newSize`.

If `newSize` is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.
DoubleArray

`**Returns a new array which is a copy of the specified range of the original array.
@param fromIndex the start of the range (inclusive), must be in 0..array.size
@param toIndex the end of the range (exclusive), must be in fromIndex..array.size

public expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray

/**
 * Returns a new array which is a copy of the specified range of the original array.
 * @param fromIndex the start of the range (inclusive), must be in 0..array.size
 * @param toIndex the end of the range (exclusive), must be in fromIndex..array.size
 */
public expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit

/**
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * @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("1.3")
public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit

/*
 * Fills this array or its subrange with the specified [element] value.
 * @param fromIndex the start of the range (inclusive), size of this array by default.
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 */
@SinceKotlin("1.3")
public expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit

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array.

```kotlin
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].
 */
@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: ByteArray): 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: ShortArray): 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: IntArray): 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: LongArray): LongArray

/**
 * 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

/**
 * Returns an array containing all
 * elements of the original array and then all elements of the
 * given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: ShortArray): ShortArray

/**
 * Returns an array containing all
 * elements of the original array and then all elements of the
 * given [elements] array.
 */
public expect operator fun IntArray.plus(elements: IntArray): IntArray

/**
 * Returns an array containing all
 * elements of the original array and then all elements of the
 * given [elements] array.
 */
public expect operator fun LongArray.plus(elements: LongArray): LongArray
```

---

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containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun CharArray.plus(elements: CharArray): CharArray

/**
 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
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 * 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: CharArray): CharArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun ShortArray.plus(elements: CharArray): ShortArray

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 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun IntArray.plus(elements: CharArray): IntArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun LongArray.plus(elements: CharArray): LongArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun FloatArray.plus(elements: FloatArray): FloatArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
public expect operator function
of this primitive array.

*/

public expect fun DoubleArray.toTypedArray(): Array<Double>*

Returns a *typed* object array containing all of the elements of this primitive array.

*/

public expect fun BooleanArray.toTypedArray(): Array<Boolean>*

Returns a *typed* object array containing all of the elements of this primitive array.

*/

public expect fun CharArray.toTypedArray(): Array<Char>*

Returns a [Map] containing key-value pairs provided by [transform] function* *applied to elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> Array<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity = mapCapacity(size).coerceAtLeast(16)*
  \n  return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}

}"/n

returns a [Map] containing key-value pairs provided by [transform] function* *applied to
elements of the given array.*

*/

of any two pairs would have the same key the last one gets added to the map.*

The returned map preserves the entry iteration order of the original array.*

*/

public expect fun <T, K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V>*

{\n  \n  val capacity =
mapCapacity(size).coerceAtLeast(16) return associateTo(LinkedHashMap<K, V>(capacity), transform) // Returns a [Map] containing the elements from the given array indexed by the key. 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. public inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, T>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <T, K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}

public inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {
    val capacity = mapCapacity(size).coerceAtLeast(16)
    return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector) // Returns a [Map] containing the elements from the given array indexed by the key. 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.
}
Char> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K,Char*>(capacity), keySelector)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> Array<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}

/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
public inline fun <T, K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {ln val capacity = mapCapacity(size).coerceAtLeast(16)ln return associateByTo(LinkedHashMap<K, V>(capacity), keySelector,valueTransform)n\n
/* * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array. */
}
[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.*

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.*

*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.*

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where key is provided by the [keySelector] function applied to each element of the given array * and value is the element itself.*

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where key is provided by the [keySelector] function applied to each element of the given array * and value is the element itself.*

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where key is provided by the [keySelector] function applied to each element of the given array * and value is the element itself.*

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where key is provided by the [keySelector] function applied to each element of the given array * and value is the element itself.*

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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.*

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where key is provided by the [keySelector] function applied to each element of the given array * and value is the element itself.*

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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.*

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.*

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.*

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.*

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.*

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.*

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.*

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.*

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.*

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.*

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.*

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.*
two elements would have the same key returned by \[keySelector\] the last one gets added to the map. */

```java
public inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> 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 and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
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        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

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        destination.put(keySelector(element), valueTransform(element))
    }
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}
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    }
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```

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}
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Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

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        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */

```java
public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))
    }
    return destination
}
```

Populates and returns the \[destination\] mutable map with key-value pairs, where key is provided by the \[keySelector\] function and value is provided by the \[valueTransform\] function applied to elements of the given array. */
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), \n        valueTransform(element))\n    }\n    return destination\n}\n
/**
 * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and value is provided by\n * the [valueTransform] function applied to elements of the given array.\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\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), \n        valueTransform(element))\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\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 * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\n}

/**
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all elements to the given [destination] collection.

`Array<out T>.toCollection(destination: C): C
{ in
    for (item in this)
    { in
        destination.add(item)
    }
    return destination
} /*/ Appends all elements to the given [destination] collection.
 */

public fun <T, C : MutableList<T>> Array<out T>.toCollection(destination: C): C
{ in
    for (item in this)
    { in
        destination.add(item)
    }
    return destination
} /*/ Appends all elements to the given [destination] collection.
 */

`ByteArray.toHashSet(): HashSet<Byte> = toCollection(HashSet<Byte>(mapCapacity(size)))

`CharArray.toHashSet(): HashSet<Char> = toCollection(HashSet<Char>(mapCapacity(size)))

`DoubleArray.toHashSet(): HashSet<Double> = toCollection(HashSet<Double>(mapCapacity(size)))

`FloatArray.toHashSet(): HashSet<Float> = toCollection(HashSet<Float>(mapCapacity(size)))

`IntArray.toHashSet(): HashSet<Int> = toCollection(HashSet<Int>(mapCapacity(size)))

`LongArray.toHashSet(): HashSet<Long> = toCollection(HashSet<Long>(mapCapacity(size)))

`MutableCollection<T>.containsAll(collection: Collection<T>): Boolean
{ in
    for (item in this)
    { in
        if (!collection.contains(item))
            return false
    }
    return true
}

`MutableCollection<T>.containsAll(collection: Collection<T>): Boolean
{ in
    for (item in this)
    { in
        if (!collection.contains(item))
            return false
    }
    return true
}

`MutableCollection<T>.toList(): List<T> = when (size)
{ 0 -> emptyList()
1 -> listOf(this[0])
else -> this.toMutableList().toList()
} /*/ Returns a [List] containing all elements.
 */

`MutableCollection<T>.toList(): List<T> = when (size)
{ 0 -> emptyList()
1 -> listOf(this[0])
else -> this.toMutableList().toList()
} /*/ Returns a [List] containing all elements.
 */

`MutableCollection<T>.toList(): List<T> = when (size)
{ 0 -> emptyList()
1 -> listOf(this[0])
else -> this.toMutableList().toList()
} /*/ Returns a [List] containing all elements.
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{ 0 -> emptyList()
1 -> listOf(this[0])
else -> this.toMutableList().toList()
} /*/ Returns a [List] containing all elements.
 */

`MutableCollection<T>.toList(): List<T> = when (size)
{ 0 -> emptyList()
1 -> listOf(this[0])
else -> this.toMutableList().toList()
} /*/ Returns a [List] containing all elements.
 */
BooleanArray.toSet(): Set<Boolean> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
    }
}

** The returned set preserves the element iteration order of the original array.
 */
public fun toCollection(LinkedHashSet<Double>(mapCapacity(size)))
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Double> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Float> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Long> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Int> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Short> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] of all elements.
 * 
 Set<Byte> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else ->
    }/* 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 ->
    }
}

/**
 * Returns a [Set] containing all elements.
 * 
 List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Double> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Float> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Long> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Int> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Short> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<T> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [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 [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 [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 [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 [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 [MutableList] filled with all elements of this array.
 */
public fun ByteArray.toMutableList(): MutableList<Byte> {
    val list = ArrayList<Byte>(size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [MutableList] filled with all elements of this array.
 */
public fun <T> Array<out T>.toMutableList(): MutableList<T> {
    val list = ArrayList<T>(this.size)
    for (item in this) list.add(item)
    return list
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Boolean> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Double> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Float> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Long> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Int> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Short> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<Byte> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}

/**
 * Returns a [List] containing all elements.
 * 
 List<T> {
    return when (size) {
        0 -> emptyList()
        1 ->
    }
}
else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))
} */

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun CharArray.toSet(): Set<Char> {
    return when (size) {
        0 -> emptySet()
        1 -> setOf(this[0])
        else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))
    }
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun ByteArray.flatMap(transform: (Byte) -> Iterable<Byte>): List<Byte> {
    return flatMapTo(ArrayList<Byte>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun ShortArray.flatMap(transform: (Short) -> Iterable<Short>): List<Short> {
    return flatMapTo(ArrayList<Short>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun IntArray.flatMap(transform: (Int) -> Iterable<Int>): List<Int> {
    return flatMapTo(ArrayList<Int>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun LongArray.flatMap(transform: (Long) -> Iterable<Long>): List<Long> {
    return flatMapTo(ArrayList<Long>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun FloatArray.flatMap(transform: (Float) -> Iterable<Float>): List<Float> {
    return flatMapTo(ArrayList<Float>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun DoubleArray.flatMap(transform: (Double) -> Iterable<Double>): List<Double> {
    return flatMapTo(ArrayList<Double>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun BooleanArray.flatMap(transform: (Boolean) -> Iterable<Boolean>): List<Boolean> {
    return flatMapTo(ArrayList<Boolean>(), transform)  
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.  
 */

public fun CharArray.flatMap(transform: (Char) -> Iterable<Char>): List<Char> {
    return flatMapTo(ArrayList<Char>(), transform)  
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].  
 */

public fun Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<C>): 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 ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<C>): 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 ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<C>): 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 IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<C>): 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 LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<C>): 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 FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<C>): 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 DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<C>): 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 BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<C>): 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 CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<C>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}
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<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<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<R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<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.
 */
public inline fun <T, K> Array<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.
 */
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.
 */
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.
 */
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.
 */
public inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {
    return groupByTo(LinkedHashMap<K, MutableList<Long>>(), 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.
 */
public inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {
    return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)
}
a list of corresponding elements. * The returned map preserves the entry iteration order of the keys produced from the original array. * The returned map preserves the entry iteration order of the keys produced from the original array. * * @sample samples.collections.Collections.Transformations.groupBy

```kotlin
public inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {
    return groupByTo(LinkedHashMap<K, MutableList<Double>>(), 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

```
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>>

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>>

DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>>

CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>>
Groups elements of the original array 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. 

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Int>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Long>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Float>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Double>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Boolean>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out 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
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <T, K, V, M : CharArray>.groupByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}
```

Groups elements of the original array 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. 

```kotlin
public inline fun <T, K, V> Array<out 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
}
```
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Groups values returned by the [valueTransform] function applied to each element of the
 * original array in * by the key returned by the given [keySelector] function applied to the element in *
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample samples.collections.Transformations.groupByKeyAndValues
 */
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}
map each group key associated with a list of corresponding values.

- @return The [destination] map.

- @sample samples.collections.Collections.Transformations.groupByKeysAndValues

```kotlin
public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {
    val list = destination.getOrElse(key) { ArrayList<V>() } as MutableList<V>
    return destination
}
```

- Creates a [Grouping] source from an array to be used later with one of group-and-fold operations
- using the specified [keySelector] function to extract a key from each element.

```kotlin
@SinceKotlin("1.1")
public inline fun <T, R> Array<out T>.groupingBy(crossinline keySelector: (T) -> R): Grouping<T, R> {
    return object : Grouping<T, R> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun keyOf(element: T): R = keySelector(element)
    }
}
```

- Returns a list containing the results of applying the given [transform] function to each element in the original array.

```kotlin
public inline fun <T, R> Array<out T>.map(transform: (T) -> 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.

```kotlin
public inline fun <R> ByteArray.map(transform: (Byte) -> 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.

```kotlin
public inline fun <R> ShortArray.map(transform: (Short) -> 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.

```kotlin
public inline fun <R> IntArray.map(transform: (Int) -> 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.

```kotlin
public inline fun <R> LongArray.map(transform: (Long) -> 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.

```kotlin
public inline fun <R> FloatArray.map(transform: (Float) -> 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.

```kotlin
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.

```kotlin
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.

```kotlin
public inline fun <T, R> Array<out T>.mapIndexed(transform: (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.
that takes the index of an element and the element itself * and returns the result of the transform applied to the element.

```kotlin
@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 only the non-null 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 : Any> Array<out 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 array
 * 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 <R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
    forEachIndexed {
        index, element -> destination.add(transform(index, element))
    }
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * 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 <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}
```
[transform] function to each element and its index in the original array
 * 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 <R, C : MutableCollection<in R>>
ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {

    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * 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 <R, C : MutableCollection<in R>>
IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * 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 <R, C : MutableCollection<in R>>
LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * 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 <R, C : MutableCollection<in R>>
CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(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 array.
 */
public inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each element in the original array
 * and appends only the non-null results to the given [destination].
 */
public inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
    for (item in this)
        destination.add(transform(item) ?: null)
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}
element of the original array
* and appends the results to the given [destination].

```kotlin
open inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
open inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {
    return destination.add(transform(item))
}
```

```kotlin
public fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}
```

```kotlin
public fun <T> Array<out T>.distinct(): List<T> {
    return this.toMutableSet().toList()
}
```

```kotlin
open Source Used In UCM Cloud Analyzer Service 1.0 1831
```
```

\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun ByteArray.distinct(): List<Byte> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun ShortArray.distinct(): List<Short> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun IntArray.distinct(): List<Int> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n *
 * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun LongArray.distinct(): List<Long> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun ByteArray.distinct(): List<Byte> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun CharArray.distinct(): List<Char> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun DoubleArray.distinct(): List<Double> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun FloatArray.distinct(): List<Float> { for (e in this) {
            list.add(e)
    }
    return list
}

/**
 * Returns a list containing only distinct elements from the given array.\n * The elements in the resulting list are in the same order as they were in the source array.\n
/*\n*/

public inline fun BooleanArray.distinct(): List<Boolean> { for (e in this) {
            list.add(e)
    }
    return list
}
```
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]

* \( \text{public infix fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{Returns `true` if all elements match the given} \) \( \text{predicate} \).\n
* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@sample samples.collections.Collections.Aggregates.all} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.all(predicate: (Byte) -> Boolean): Boolean \{ for (element in this) if (!predicate(element)) return false \n \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@sample samples.collections.Collections.Aggregates.all} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{IntArray.union(other: Iterable<Int>): Set<Int> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ShortArray.union(other: Iterable<Short>): Set<Short> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{ByteArray.union(other: Iterable<Byte>): Set<Byte> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)

* \( \text{\( \text{\textbackslash n} \text{\textbackslash n} \) \}} \) \( \text{\@public inline fun} \) \( \text{CharArray.union(other: Iterable<Char>): Set<Char> \{ val set = this.toMutableSet() set.addAll(other) return set \}} \)
false

Returns `true` if at least one element matches the given [predicate].

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun ByteArray.anyWithPredicate(predicate: (Byte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun ShortArray.anyWithPredicate(predicate: (Short) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun IntArray.anyWithPredicate(predicate: (Int) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun LongArray.anyWithPredicate(predicate: (Long) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun FloatArray.anyWithPredicate(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun DoubleArray.anyWithPredicate(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun BooleanArray.anyWithPredicate(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns `true` if at least one element matches the given [predicate].
fun CharArray.anyWithPredicate(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}
```

```kotlin
// Returns the number of elements in this array.
fun <T> Array<out T>.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun ByteArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun ShortArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun IntArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun LongArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun FloatArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun DoubleArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun BooleanArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements in this array.
fun CharArray.count(): Int {
    return size
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun ByteArray.count(predicate: (Byte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun ShortArray.count(predicate: (Short) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun IntArray.count(predicate: (Int) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun LongArray.count(predicate: (Long) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun FloatArray.count(predicate: (Float) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun DoubleArray.count(predicate: (Double) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```

```kotlin
// Returns the number of elements matching the given [predicate].
fun CharArray.count(predicate: (Char) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
```
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.
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.
* @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.
* @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.
* @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.
* @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
* to current accumulator value and each element with its index in the original array.
* @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.
* @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> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> 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.
* @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> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> 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 right to left and current accumulator value.
* @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> FloatArray.foldRight(initial: R, operation: (index: Int, acc: R, Float) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.
* @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.foldRight(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}

* Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.
* @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.foldRight(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
    var index = 0
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index++, accumulator, element)
    }
    return accumulator
}
ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> ByteArray.foldRight(initial: R, operation: (Int, Byte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.
 */
public inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
left
* to each element with its index in the original array and current accumulator value.

* @param [operation] function that takes the index of an element, the element itself
* and current accumulator value, and calculates the next accumulator value.

* An public inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {
var index = lastIndex
var accumulator = initial
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
} return accumulator

* Accumulates value starting with [initial] value and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* An public inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {
var index = lastIndex
var accumulator = initial
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
} return accumulator

* Accumulates value starting with [initial] value and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* An public inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {
var index = lastIndex
var accumulator = initial
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
} return accumulator

* Accumulates value starting with [initial] value and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* An public inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {
var index = lastIndex
var accumulator = initial
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
} return accumulator

* Accumulates value starting with [initial] value and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.

* An public inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {
var index = lastIndex
var accumulator = initial
while (index >= 0) {
    accumulator = operation(index, get(index), accumulator)
    --index
} return accumulator

* Accumulates value starting with [initial] value and applying [operation] from right to left
* to each element with its index in the original array and current accumulator value.
performs the desired action on the element.

```
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```
/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
public fun FloatArray.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

```
/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Array<out Float>.max(): Float? {
    if (isEmpty()) return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}
```
```kotlin
if (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
public fun DoubleArray.max(): Double? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxElement = 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 element or `null` if there are no elements.
 */
public fun CharArray.max(): Char? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public fun <T, R : Comparable<R>> Array<T>.maxBy(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    var lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxElement = 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.
 */
public inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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.
 */
public inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var maxElement = maxElem
    var 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
}
```
```kotlin
maxValue = v

// return the first element yielding the largest value of the given function or `null` if there are no elements.
*T* "*maxWith* (comparator: Comparator<in *T*>): *T*?

// returns the element yielding the largest value of the given function or `null` if there are no elements.

public fun *Array<out Double>*.maxWith (comparator: Comparator<in Double>): Double?

// or `null` if there are no elements.

public fun *BooleanArray*.maxBy (selector: (Boolean) -> R): Boolean?

// or `null` if there are no elements.

public fun *ByteArray*.maxWith (comparator: Comparator<in Byte>): Byte?

// or `null` if there are no elements.

public fun *CharArray*.maxWith (comparator: Comparator<in Char>): Char?

// or `null` if there are no elements.

public fun *DoubleArray*.maxWith (comparator: Comparator<in Double>): Double?

// or `null` if there are no elements.

public fun *FloatArray*.maxWith (comparator: Comparator<in Float>): Float?

// or `null` if there are no elements.

public fun *IntArray*.maxWith (comparator: Comparator<in Int>): Int?

// or `null` if there are no elements.

public fun *LongArray*.maxWith (comparator: Comparator<in Long>): Long?

// or `null` if there are no elements.

public fun *ShortArray*.maxWith (comparator: Comparator<in Short>): Short?

// or `null` if there are no elements.

public fun *T*.maxWith (comparator: Comparator<in T>): T?

// or `null` if there are no elements.

public fun <R : Comparable<R>> *Array<out T>*.maxBy (selector: (T) -> R): T?

// or `null` if there are no elements.

public fun samples.collections.Collections.Aggregates.maxBy (selector: (Char) -> R): Char?

// or `null` if there are no elements.

public fun samples.collections.Collections.Aggregates.maxBy (selector: (Boolean) -> R): Boolean?

// or `null` if there are no elements.

public fun *ByteArray*.minWith (comparator: Comparator<in Byte>): Byte?

// or `null` if there are no elements.

public fun *CharArray*.minWith (comparator: Comparator<in Char>): Char?

// or `null` if there are no elements.

public fun *FloatArray*.minWith (comparator: Comparator<in Float>): Float?

// or `null` if there are no elements.

public fun *IntArray*.minWith (comparator: Comparator<in Int>): Int?

// or `null` if there are no elements.

public fun *LongArray*.minWith (comparator: Comparator<in Long>): Long?

// or `null` if there are no elements.

public fun *ShortArray*.minWith (comparator: Comparator<in Short>): Short?

// or `null` if there are no elements.

public fun *T*.minWith (comparator: Comparator<in T>): T?
```

smallest element or `null` if there are no elements.\n\n*Nullable* if any of elements is `NaN`.\n\n\n@SinceKotlin("1.1")\n\npublic fun Array<out Float>.min(): Float? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * @sample\n *\n *\n */\npublic fun FloatArray.min(): Float? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * @sample\n *\n *\n */\npublic fun IntArray.min(): Int? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * @sample\n *\n *\n */\npublic fun LongArray.min(): Long? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * @sample\n *\n *\n */\npublic fun DoubleArray.min(): Double? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}

/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * @sample\n *\n *\n */\npublic fun ByteArray.min(): Byte? {\n    if (isEmpty()) return null
    var min = this[0]
    var minElement = val

    for (i in 1..lastIndex) {\n        val e = this[i]
        if (min > e) min = e
    }
    return min
}
minValue = \n return minElem

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
public inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {
    if (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
public fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {
    if (isEmpty()) return null
    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] or `null` if there are no elements.
 */
public fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {
    if (isEmpty()) return null
    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] or `null` if there are no elements.
 */
public fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {
    if (isEmpty()) return null
    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] or `null` if there are no elements.
 */
public fun IntArray.minWith(comparator: Comparator<in Int>): Int? {
    if (isEmpty()) return null
    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] or `null` if there are no elements.
 */
public fun LongArray.minWith(comparator: Comparator<in Long>): Long? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
}
**Returns the first element having the smallest value according to the provided [comparator] or 'null' if there are no elements.**

```kotlin
public fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {
    if (isEmpty()) return null
    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] or 'null' if there are no elements.**

```kotlin
public fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {
    if (isEmpty()) return null
    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] or 'null' if there are no elements.**

```kotlin
public fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {
    if (isEmpty()) return null
    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] or 'null' if there are no elements.**

```kotlin
public fun CharArray.minWith(comparator: Comparator<in Char>): Char? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
```
samples.collections.Collections.Aggregates.noneWithPredicate

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 */
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.
 */
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.
 */
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.
 */
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.
 */
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
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 */
public inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {
    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.
 */
public inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {
    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
}
Char) -> Char): Char {
    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.
 * @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 <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, 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(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.
 * @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 ByteArray.reduceIndexed(operation: (index: Int, 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(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.
 * @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 ShortArray.reduceIndexed(operation: (index: Int, 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(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.
 * @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 IntArray.reduceIndexed(operation: (index: Int, 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(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.
 * @param [operation] function that takes the index of an element, current accumulator value
 * and the element itself and calculates the next accumulator value.
 */
    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.
 * @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 FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
    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.
 * @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 DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {
    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
}
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.
* @param [operation] function that takes the index of an element, current accumulator value * and the element itself and calculates the next accumulator value.
} *\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.
* @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 BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean) -> Boolean): Boolean {
    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.
* @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 CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

public inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator: S = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

public inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {
    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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

public inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {
    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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

public 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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

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 last element and applying [operation] from right to left
* to each element and current accumulator value.
*/

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
}
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
public inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
public inline fun <S, T : S> ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
public inline fun <S, T : S> ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
public inline fun <S, T : S> IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element with its index in the original array and current accumulator value.
 */
public inline fun <S, T : S> FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: S) -> S): S {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}
// and applying [operation] from right to left to each element with its index in the original array and current accumulator value. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. */

public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. */

public inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Accumulates value starting with last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value. */

public inline fun CharArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array. */

public inline fun <T> Array<out 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 array. */

public inline fun ByteArray.sumBy(selector: (Byte) -> 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 array. */

public inline fun ShortArray.sumBy(selector: (Short) -> 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 array. */

public inline fun IntArray.sumBy(selector: (Int) -> 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 array. */

public inline fun LongArray.sumBy(selector: (Long) -> 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 array. */

public inline fun FloatArray.sumBy(selector: (Float) -> 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 array. */

public inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {
    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. */

public inline fun BooleanArray.sumBy(selector: (Boolean) -> 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 array. */

public inline fun CharArray.sumBy(selector: (Char) -> 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 array. */

public inline fun <T> Array<out 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 array. */

public inline fun ByteArray.sumByDouble(selector: (Byte) -> 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. */

public inline fun ShortArray.sumByDouble(selector: (Short) -> 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. */

public inline fun IntArray.sumByDouble(selector: (Int) -> 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. */

public inline fun LongArray.sumByDouble(selector: (Long) -> 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. */

public inline fun FloatArray.sumByDouble(selector: (Float) -> 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. */

public inline fun DoubleArray.sumByDouble(selector: (Double) -> 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. */

public inline fun BooleanArray.sumByDouble(selector: (Boolean) -> 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. */

public inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
public inline fun ArrayList<Long>.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`.
 */
public inline fun ArrayList<Int>.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`.
 */
public inline fun ArrayList<Short>.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`.
 */
public inline fun ArrayList<Byte>.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`.
 */
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`.
 */
public fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {
    for (element in this) {
        if (element == null) @Suppress("UNCHECKED_CAST") return this as Array<T>
    }
    throw IllegalArgumentException("null found")
}

/**
 * Returns the sum of all values produced by
 * [selector] function applied to each element in the array.
 */
public inline fun DoubleArray.sumByDouble(selector: (Double) -> 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.
 */
public inline fun IntArray.sumByDouble(selector: (Int) -> 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.
 */
public inline fun ShortArray.sumByDouble(selector: (Short) -> 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.
 */
public inline fun ByteArray.sumByDouble(selector: (Byte) -> 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.
 */
public inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}
/**
 * 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'.
 */
public inline fun <T> Array<T>.partition(predicate: (T) -> Boolean): Pair<Array<T>, Array<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'.
 */
public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<Iterable<T>, Iterable<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)
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
public * @sample
samples.collections.Operables.Operables.zipIterable

CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

IntArray.zip(other: Array<out R>, transform: (a: Int, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

LongArray.zip(other: Array<out R>, transform: (a: Long, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

FloatArray.zip(other: Array<out R>, transform: (a: Float, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

DoubleArray.zip(other: Array<out R>, transform: (a: Double, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

ByteArray.zip(other: Array<out R>, transform: (a: Byte, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

ShortArray.zip(other: Array<out R>, transform: (a: Short, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

IntArray.zip(other: Array<out R>, transform: (a: Int, 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterableWithTransform

charArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs 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.
 */
public * @sample
samples.collections.Operables.Operables.zipIterable
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> |
val return list\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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nIntArray.zip(other: Iterable<R>): List<Pair<Int, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nLongArray.zip(other: Iterable<R>): List<Pair<Long, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nFloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nDoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> |
val return list\n\n|\n* Returns a list of pairs built from the elements of ‘this’ collection and [other] array with the same index.\n* The returned list has length of the shortest collection.\n\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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\nCharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> |
val return list\n\n|\n* Returns a list of pairs 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.
fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, 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
        list.add(transform(this[i++], element))
    }
    return list
}

fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, 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
        list.add(transform(this[i++], element))
    }
    return list
}

fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, 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
        list.add(transform(this[i++], element))
    }
    return list
}

    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, 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
        list.add(transform(this[i++], element))
    }
    return list
}

fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {
    val arraySize = size
    val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))
    var i = 0
}
for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun ByteArray.zip(other: ByteArray):
List<Pair<Byte, Byte>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun IntArray.zip(other: IntArray):
List<Pair<Int, Int>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun FloatArray.zip(other: FloatArray):
List<Pair<Float, Float>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun BooleanArray.zip(other: BooleanArray):
List<Pair<Boolean, Boolean>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * @sample samples.collections.Iterables.Operations.zipIterable } *unpublic infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\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* * * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n* *unpublic inline fun <V> ByteArray.zip(\n    other: ByteArray, \n    transform: (a: Byte, b: Byte) -> V): List<V> {\n    val list = ArrayList\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\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* * * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n* *unpublic inline fun <V> ShortArray.zip(\n    other: ShortArray, \n    transform: (a: Short, b: Short) -> V): List<V> {\n    val list = ArrayList\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\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* * * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n* *unpublic inline fun <V> IntArray.zip(\n    other: IntArray, \n    transform: (a: Int, b: Int) -> V): List<V> {\n    val list = ArrayList\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n    }\n    return list\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.

```kotlin
public inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> 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.
 */
public inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> 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.
 */
public inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> 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.
 */
public inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> 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.
 */
public inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> 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
}
```

```kotlin
public 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 {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

```kotlin
public fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```
[limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

```kotlin
public fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = ", ", prefix: CharSequence = "", postfix: CharSequence = ", ", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? = null): A {
    buffer.append(prefix)
    var count = 0
    for (element in this) {
        if (++count > 1)
            buffer.append(separator)
        if (limit < 0 || count <= limit) {
            if (transform != null)
                buffer.append(transform(element))
            else
                buffer.append(element.toString())
        } else break
    }
    if (limit >= 0 && count > limit) buffer.append(truncated)
    buffer.append(postfix)
    return buffer
}
```

The other implementations for `IntArray`, `LongArray`, `FloatArray`, and `DoubleArray` are similar, with the appropriate type changes for the elements and separators used.
separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

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If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").

If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "...").
[Iterable] instance that wraps the original array returning its elements when being iterated.

public fun DoubleArray.asIterable(): Iterable<Double> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asIterable(): Iterable<Boolean> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asIterable(): Iterable<Char> {
    if (isEmpty()) return emptyList()
    return Iterable { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun <T> Array<out T>.asSequence(): Sequence<T> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ByteArray.asSequence(): Sequence<Byte> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun ShortArray.asSequence(): Sequence<Short> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun IntArray.asSequence(): Sequence<Int> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun LongArray.asSequence(): Sequence<Long> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun FloatArray.asSequence(): Sequence<Float> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun DoubleArray.asSequence(): Sequence<Double> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun BooleanArray.asSequence(): Sequence<Boolean> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.
 */
public fun CharArray.asSequence(): Sequence<Char> {
    if (isEmpty()) return emptySequence()
    return Sequence { this.iterator() }
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Array<out Byte>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Array<out Short>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Array<out Int>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfLong")
public fun Array<out Long>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfFloat")
public fun Array<out Float>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}
Double = 0.0
var count: Int = 0
for (element in this) {
    sum += element
    ++count
}
return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Array<out Double>.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun ByteArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun ShortArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun IntArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun LongArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun FloatArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns an average value of elements in the array.
 */
public fun DoubleArray.average(): Double {
    var sum: Double = 0.0
    var count: Int = 0
    for (element in this) {
        sum += element
        ++count
    }
    return if (count == 0) Double.NaN else sum / count
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfByte")
public fun Array<out Byte>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfShort")
public fun Array<out Short>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfInt")
public fun Array<out Int>.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Array<out Long>.sum(): Long {
    var sum: Long = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfFloat")
public fun Array<out Float>.sum(): Float {
    var sum: Float = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Array<out Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ByteArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun ShortArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun IntArray.sum(): Int {
    var sum: Int = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun LongArray.sum(): Long {
    var sum: Long = 0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun FloatArray.sum(): Float {
    var sum: Float = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}

/**
 * Returns the sum of all elements in the array.
 */
public fun DoubleArray.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("RangesKt")

package kotlin.ranges

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
Checks if the specified [value] belongs to this range.

```kotlin
*S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")@kotlin.jvm.JvmName("longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean { println("\n    \n    return value.toLongExactOrNull().let { if (it != null) \n        contains(it) else false }\n\n    \n    *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n    @kotlin.jvm.JvmName("byteRangeContains\")\n    public operator fun ClosedRange<Byte>.contains(value: Double): Boolean { println("\n        return value.toByteExactOrNull().let { if (it != null) \n            contains(it) else false }\n\n        *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n        @kotlin.jvm.JvmName("shortRangeContains\")\n        public operator fun ClosedRange<Short>.contains(value: Double): Boolean { println("\n            return value.toShortExactOrNull().let { if (it != null) \n                contains(it) else false }\n\n            *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n            @kotlin.jvm.JvmName("doubleRangeContains\")\n            public operator fun ClosedRange<Double>.contains(value: Double): Boolean { println("\n                return value.toDouble().let { if (it != null) \n                    contains(it) else false }\n\n                *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                @kotlin.jvm.JvmName("floatRangeContains\")\n                public operator fun ClosedRange<Float>.contains(value: Double): Boolean { println("\n                    return value.toFloat().let { if (it != null) \n                        contains(it) else false }\n\n                    *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                    @kotlin.jvm.JvmName("intRangeContains\")\n                    public operator fun ClosedRange<Int>.contains(value: Float): Boolean { println("\n                        return value.toIntExactOrNull().let { if (it != null) \n                            contains(it) else false }\n\n                        *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                        @kotlin.jvm.JvmName("longRangeContains\")\n                        public operator fun ClosedRange<Long>.contains(value: Float): Boolean { println("\n                            return value.toLongExactOrNull().let { if (it != null) \n                                contains(it) else false }\n\n                            *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                            @kotlin.jvm.JvmName("byteRangeContains\")\n                            public operator fun ClosedRange<Byte>.contains(value: Float): Boolean { println("\n                                return value.toByteExactOrNull().let { if (it != null) \n                                    contains(it) else false }\n\n                                *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                                @kotlin.jvm.JvmName("shortRangeContains\")\n                                public operator fun ClosedRange<Short>.contains(value: Float): Boolean { println("\n                                    return value.toShortExactOrNull().let { if (it != null) \n                                        contains(it) else false }\n\n                                    *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                                    @kotlin.jvm.JvmName("doubleRangeContains\")\n                                    public operator fun ClosedRange<Double>.contains(value: Float): Boolean { println("\n                                        return value.toDouble().let { if (it != null) \n                                            contains(it) else false }\n\n                                        *S@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n                                        @kotlin.jvm.JvmName("floatRangeContains\")\n                                        public operator fun ClosedRange<Float>.contains(value: Float): Boolean { println("\n                                            return value.toFloat().let { if (it != null) \n                                                contains(it) else false }\n```

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specified [value] belongs to this range.

*ClosedRange<Int>.contains(value: Long): Boolean {
    return value.toLongOrNull().let { if (it != null) contains(it) else false }
}

*ClosedRange<Byte>.contains(value: Long): Boolean {
    return value.toByteOrNull().let { if (it != null) contains(it) else false }
}

*ClosedRange<Short>.contains(value: Long): Boolean {
    return value.toShortOrNull().let { if (it != null) contains(it) else false }
}

*ClosedRange<Double>.contains(value: Long): Boolean {
    return contains(value.toDouble())
}

*ClosedRange<Float>.contains(value: Long): Boolean {
    return contains(value.toFloat())
}

*ClosedRange<Int>.contains(value: Short): Boolean {
    return contains(value.toInt())
}

*ClosedRange<Long>.contains(value: Short): Boolean {
    return contains(value.toLong())
}

*ClosedRange<Byte>.contains(value: Short): Boolean {
    return value.toByteOrNull().let { if (it != null) contains(it) else false }
}

*ClosedRange<Double>.contains(value: Short): Boolean {
    return contains(value.toDouble())
}

*ClosedRange<Float>.contains(value: Short): Boolean {
    return contains(value.toFloat())
}

>Returns a progression from this value down to the specified [to] value with the step -1.

*Int.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(0, to.toInt(), -1)
}

*Long.downTo(to: Byte): LongProgression {
    return LongProgression.fromClosedRange(0, to.toLong(), -1)
}

*Short.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(0, to.toInt(), -1)
}

*Char.downTo(to: Char): CharProgression {
    return CharProgression.fromClosedRange(0, to.toInt(), -1)
}

*IntProgression(
    start: Int,
    step: Int,
) 

*LongProgression(
    start: Long,
    step: Long,
) 

*CharProgression(
    start: Char,
    step: Char,
) 

See the documentation for more details. The progression is always null if the step is zero.
open infix fun Int.downTo(to: Int): IntProgression {
    return IntProgression.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.
 */
public infix fun Long.downTo(to: Int): LongProgression {
    return LongProgression.fromClosedRange(this, to.toLong(), -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.
 */
public infix fun Byte.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), 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.
 */
public infix fun Short.downTo(to: Int): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), 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.
 */
public infix fun Int.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), 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.
 */
public infix fun Long.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), 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.
 */
public infix fun Byte.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), 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.
 */
public infix fun Short.downTo(to: Long): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), 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.
 */
public infix fun Int.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this, 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.
 */
public infix fun Long.downTo(to: Short): LongProgression {
    return LongProgression.fromClosedRange(this.toLong(), 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.
 */
public infix fun Byte.downTo(to: Short): IntProgression {
    return IntProgression.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.
 */
public infix fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun IntProgression.reversed(): IntProgression {
    return IntProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun LongProgression.reversed(): LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public fun IntProgression.step(step: Int): IntProgression {
    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}

public fun Byte.downTo(to: Byte): IntProgression {
    return IntProgression.fromClosedRange(this.toLong(), to.toLong(), -1L)
}

public fun Short.downTo(to: Short): IntProgression {
    return IntProgression.fromClosedRange(this.toLong(), to.toLong(), -1L)
}

public fun IntProgression.reversed(): IntProgression {
    return IntProgression.fromClosedRange(last, first, -step)
}

public fun LongProgression.reversed(): LongProgression {
    return LongProgression.fromClosedRange(last, first, -step)
}

public fun CharProgression.reversed(): CharProgression {
    return CharProgression.fromClosedRange(last, first, -step)
}

public fun IntProgression.step(step: Int): IntProgression {
    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)
}
step)\n*/\n
/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun LongProgression.step(step: Long): LongProgression {
    return LongProgression.checkStepsIsPositive(step > 0, step)
}

/**
 * Returns a progression that goes over the same range with the given step.
 */
public infix fun CharProgression.step(step: Int):
CharProgression.checkStepsIsPositive(step > 0, step)

internal fun Int.toByteExactOrNull(): Byte? {
    return Int.toIntExactOrNull()
}

internal fun Long.toByteExactOrNull(): Byte? {
    return Long.toByteExactOrNull()
}

internal fun Short.toByteExactOrNull(): Byte? {
    return Short.toByteExactOrNull()
}

internal fun Double.toByteExactOrNull(): Byte? {
    return Double.toByteExactOrNull()
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Int.until(to: Byte): IntRange {
    return IntRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Long.until(to: Int): LongRange {
    return LongRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Byte.until(to: Byte): IntRange {
    return IntRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Short.until(to: Int): IntRange {
    return IntRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Char.until(to: Char): CharRange {
    return CharRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Int.until(to: Int): IntRange {
    return IntRange*****************

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to this `value, then the returned range is empty.
 */
public infix fun Long.until(to: Int): LongRange {
    return LongRange*****************
1).toLong() Returns a range from this value up to but excluding the specified [to] value. * If the [to] value is less than or equal to `this` value, then the returned range is empty. */

```kotlin
public infix fun Byte.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
}
```

```kotlin
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to `this` value, then the returned range is empty.
 */
public infix fun Short.until(to: Int): IntRange {
    if (to <= Int.MIN_VALUE) return IntRange.EMPTY
    return this.toInt() .. (to - 1).toInt()
}
```

```kotlin
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to `this` value, then the returned range is empty.
 */
public infix fun Int.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this.toLong() .. (to - 1).toLong()
}
```

```kotlin
/**
 * Returns a range from this value up to but excluding the specified [to] value.
 * If the [to] value is less than or equal to `this` value, then the returned range is empty.
 */
public infix fun Long.until(to: Long): LongRange {
    if (to <= Long.MIN_VALUE) return LongRange.EMPTY
    return this .. (to - 1).toLong()
}
```

```kotlin
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Byte.coerceAtLeast(minimumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Short.coerceAtLeast(minimumValue: Short): Short {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Int.coerceAtLeast(minimumValue: Int): Int {
    return if (this < minimumValue) minimumValue else this
}
```

```kotlin
/**
 * Ensures that this value is not less than the specified [minimumValue].
 * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtLeast
 */
public fun Long.coerceAtLeast(minimumValue: Long): Long {
    return if (this < minimumValue) minimumValue else this
}
```
or the [minimumValue] otherwise.

```kotlin
@sample samples.comparisons.ComparableOps.coerceAtLeast
public fun Float.coerceAtLeast(minimumValue: Float): Float {
    return if (this < minimumValue) minimumValue else this
}

/**
 * Ensures that this value is not greater than the specified [maximumValue].
 * @return this value if it's greater than or equal to the [maximumValue] or the [maximumValue] otherwise.
 * @sample samples.comparisons.ComparableOps.coerceAtMost
 */
public fun Double.coerceAtMost(maximumValue: Double): Double {
    return if (this > maximumValue) maximumValue else 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.coerceIn
 */
public fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {
    return if (this < minimumValue) minimumValue else if (this > maximumValue) maximumValue else 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.coerceIn
 */
public fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {
    return if (this < minimumValue) minimumValue else if (this > maximumValue) maximumValue else 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.coerceIn
 */
public fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {
    return if (this < minimumValue) minimumValue else if (this > maximumValue) maximumValue else 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.coerceIn
 */
public fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {
    return if (this < minimumValue) minimumValue else if (this > maximumValue) maximumValue else this
}
```

IllegalArgumentException(‘Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.’)
Open Source Used In UCM Cloud Analyzer Service 1.0

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].\n * \n * return this value if it's in the range, 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 {

\{ 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].\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 {

\{ 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].\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 {

\{ 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].\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 {

\{ 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].\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 {

\{ 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].\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 Comparable.coerceIn(comparision: Comparable): Comparable {

\{ if (comparision < this) return comparision
if (comparision > this) return this

Ensures that this value lies in the specified range

[comparision].\ * \n * return this value if it's in the [comparision], or \"less than\" if this value is less than \"end\", or \"greater\":

\n* @sample

samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable>} T.coerceIn(comparision: ClosedFloatingPointRange\n *\nSince Kotlin ("1.1")\npublic fun <T : Comparable>} T.coerceIn\n *\npublic fun <T : Comparable>} T.coerceIn\n *\npublic fun <T : Comparable)}>
T.coerceIn(range: ClosedRange<T>): T {
    if (range is ClosedFloatingPointRange) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.
    
    return when {
        this < range.start -> range.start
        this > 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.coerceIn
 */
public fun Int.coerceIn(range: ClosedRange<Int>): Int {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Int>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.
    
    return when {
        this < range.start -> range.start
        this > 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.coerceIn
 */
public fun Long.coerceIn(range: ClosedRange<Long>): Long {
    if (range is ClosedFloatingPointRange) {
        return this.coerceIn<Long>(range)
    }
    if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.
    
    return when {
        this < range.start -> range.start
        this > range.endInclusive ->
        else -> this
    }
}

/*
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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.
 */

// Auto-generated file. DO NOT EDIT!

package kotlin

import kotlin.experimental.*

@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UByte can have.
         */
        public const val MIN_VALUE: UByte = UByte(0)

        /**
         * A constant holding the maximum value an instance of UByte can have.
         */
        public const val MAX_VALUE: UByte = UByte(-1)

        /**
         * The number of bytes used to represent an instance of UByte in a binary form.
         */
        public const val SIZE_BYTES: Int = 1

        /**
         * The number of bits used to represent an instance of UByte in a binary form.
         */
        public constant val SIZE_BITS: Int = 8
    }

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: ULong): ULong = this.toULong().compareTo(other)

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)

    /** Adds the other value to this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)

    /** Subtracts the other value from this value. */
    */
}
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other.toULong())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: Int): Int = this.toInt().minus(other.toInt())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: Long): Long = this.toLong().minus(other.toLong())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: Float): Float = this.toFloat().minus(other.toFloat())
    /** Subtracts the other value from this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun minus(other: Double): Double = this.toDouble().minus(other.toDouble())

    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: ULong): ULong = this.toULong().times(other.toULong())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: Int): Int = this.toInt().times(other.toInt())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: Long): Long = this.toLong().times(other.toLong())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: Float): Float = this.toFloat().times(other.toFloat())
    /** Multiplies this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun times(other: Double): Double = this.toDouble().times(other.toDouble())

    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: ULong): ULong = this.toULong().div(other.toULong())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: Int): Int = this.toInt().div(other.toInt())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: Long): Long = this.toLong().div(other.toLong())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: Float): Float = this.toFloat().div(other.toFloat())
    /** Divides this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun div(other: Double): Double = this.toDouble().div(other.toDouble())

    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other.toULong())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: Int): Int = this.toInt().rem(other.toInt())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: Long): Long = this.toLong().rem(other.toLong())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: Float): Float = this.toFloat().rem(other.toFloat())
    /** Calculates the remainder of dividing this value by the other value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rem(other: Double): Double = this.toDouble().rem(other.toDouble())

    /** Increments this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun inc(): UByte = UByte(data.inc())
    /** Decrements this value. */
    @kotlin.internal.InlineOnly
    public inline operator fun dec(): UByte = UByte(data.dec())

    /** Creates a range from this value to the specified [other] value. */
    @kotlin.internal.InlineOnly
    public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())

    /** Performs a bitwise AND operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)
    /** Performs a bitwise OR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)
    /** Performs a bitwise XOR operation between the two values. */
    @kotlin.internal.InlineOnly
    public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)

    /** Inverts the bits in this value. */
    @kotlin.internal.InlineOnly
    public inline fun inv(): UByte = UByte(data.inv())
    /** Converts this [UByte] value to [Byte]. */
    @kotlin.internal.InlineOnly
    public inline fun toByte(): Byte = data
    /** Converts this [UByte] value to [Short]. */
    @kotlin.internal.InlineOnly
    public inline fun toShort(): Short = data.toShort()
    /** Converts this [UByte] value to [Int]. */
    @kotlin.internal.InlineOnly
    public inline fun toInt(): Int = data.toInt()
* The resulting `Long` value represents the same numerical value as this `UByte`.
* The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte`.
* whereas the most significant 56 bits are filled with zeros.

* The least significant 8 bits of the resulting `UByte` value are the same as the bits of this `UByte`.
* whereas the most significant 8 bits are filled with zeros.

* The resulting `UShort` value represents the same numerical value as this `UByte`.
* The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte`.
  * whereas the most significant 24 bits are filled with zeros.

* The resulting `UInt` value represents the same numerical value as this `UByte`.

* The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte`.
  * whereas the most significant 24 bits are filled with zeros.

* The resulting `ULong` value represents the same numerical value as this `UByte`.

* The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Byte` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Float` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Double` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Float` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Double` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Byte` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Byte` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte`.

* The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte`.

* A constant holding the minimum value an instance of UInt can have.

* A constant holding the maximum value an instance of UInt can have.

* The number of bytes
used to represent an instance of UInt in a binary form.

```kotlin
/**
 * The number of bits used to represent an instance of UInt in a binary form.
 * @public const val SIZE_BYTES: Int = 4
 */
public const val SIZE_BYTES: Int = 4

/**
 * The number of bits used to represent an instance of UInt in a binary form.
 * @public const
 */
public const
val SIZE_BITS: Int = 32

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 * @kotlin.internal.InlineOnly
 * public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())
 */
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 * @kotlin.internal.InlineOnly
 * public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())
 */
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 * @kotlin.internal.InlineOnly
 * public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toUInt())
 */
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toUInt())

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,
 * or a positive number if it's greater than other.
 * @kotlin.internal.InlineOnly
 * public inline operator fun compareTo(other: ULong): Int = this.compareTo(other.toUInt())
 */
public inline operator fun compareTo(other: ULong): Int = this.compareTo(other.toUInt())
```

```kotlin
/**
 * Adds the other value to this value.
 * @public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())
 */
public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())

/**
 * Adds the other value to this value.
 * @public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())
 */
public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())

/**
 * Adds the other value to this value.
 * @public inline operator fun plus(other: UInt): UInt = this.plus(other.toUInt())
 */
public inline operator fun plus(other: UInt): UInt = this.plus(other.toUInt())

/**
 * Adds the other value to this value.
 * @public inline operator fun plus(other: ULong): ULong = this.plus(other.toUInt())
 */
public inline operator fun plus(other: ULong): ULong = this.plus(other.toUInt())

/**
 * Subtracts the other value from this value.
 * @public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())
 */
public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())

/**
 * Subtracts the other value from this value.
 * @public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())
 */
public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())

/**
 * Subtracts the other value from this value.
 * @public inline operator fun minus(other: UInt): UInt = this.minus(other.toUInt())
 */
public inline operator fun minus(other: UInt): UInt = this.minus(other.toUInt())

/**
 * Subtracts the other value from this value.
 * @public inline operator fun minus(other: ULong): ULong = this.minus(other.toUInt())
 */
public inline operator fun minus(other: ULong): ULong = this.minus(other.toUInt())

/**
 * Multiplies this value by the other value.
 * @public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())
 */
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())

/**
 * Multiplies this value by the other value.
 * @public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())
 */
public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())

/**
 * Multiplies this value by the other value.
 * @public inline operator fun times(other: UInt): UInt = this.times(other.toUInt())
 */
public inline operator fun times(other: UInt): UInt = this.times(other.toUInt())

/**
 * Multiplies this value by the other value.
 * @public inline operator fun times(other: ULong): ULong = this.times(other.toUInt())
 */
public inline operator fun times(other: ULong): ULong = this.times(other.toUInt())

/**
 * Divides this value by the other value.
 * @public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())
 */
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())

/**
 * Divides this value by the other value.
 * @public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())
 */
public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())

/**
 * Divides this value by the other value.
 * @public inline operator fun div(other: UInt): UInt = this.div(other.toUInt())
 */
public inline operator fun div(other: UInt): UInt = this.div(other.toUInt())

/**
 * Divides this value by the other value.
 * @public inline operator fun div(other: ULong): ULong = this.div(other.toUInt())
 */
public inline operator fun div(other: ULong): ULong = this.div(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 * @public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())
 */
public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 * @public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())
 */
public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 * @public inline operator fun rem(other: UInt): UInt = this.rem(other.toUInt())
 */
public inline operator fun rem(other: UInt): UInt = this.rem(other.toUInt())

/**
 * Calculates the remainder of dividing this value by the other value.
 * @public inline operator fun rem(other: ULong): ULong = this.rem(other.toUInt())
 */
public inline operator fun rem(other: ULong): ULong = this.rem(other.toUInt())

/**
 * Increments this value.
 * @public inline operator fun inc(): UInt = this.inc()
 */
public inline operator fun inc(): UInt = this.inc()
operator fun inc(): ULong = UInt(data.toInc()) \*\* Decrements this value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UInt = UInt(data.toDec()) \*\* Creates a range from this value to the specified [other] value. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun rangeTo(other: UInt): ULongRange(this, other) \*\* Shifts this value left by the [bitCount] number of bits. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun shl(bitCount: Int): UInt = UInt(data.shl(bitCount)) \*\* Performs a bitwise AND operation between the two values. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun shr(bitCount: Int): UInt = UInt(data.ushr(bitCount)) \*\* Performs a bitwise OR operation between the two values. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun xor(other: UInt): UInt = UInt(data.xor(other)) \*\* Performs a bitwise XOR operation between the two values. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun and(other: UInt): UInt = UInt(data.and(other)) \*\* Performs a bitwise AND operation between the two values. */\n    @kotlin.internal.InlineOnly\n
public inline operator fun or(other: UInt): UInt = UInt(data.or(other)) \*\* Performs a bitwise OR operation between the two values. */\n    @kotlin.internal.InlineOnly\n
@kotlin.internal.InlineOnly
public fun shl(bin: String): UInt
    return UInt(data.ushr(bin.toInt()))
The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value, \*n whereas the most significant 24 bits are filled with the sign bit of this value, \n
```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
```

*\n@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toUInt(): UInt = UInt(this.toInt())

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toUInt(): UInt = UInt(this)
```

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toUInt(): UInt = UInt(this.toInt())
```

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())
```

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Double.toUInt(): UInt = doubleToUInt(this)
```

The number of bytes used to represent an instance of UShort in a binary form, \n
```
public const val SIZE_BYTES: Int = 2
```

```
public const val SIZE_BITS: Int = 16
```

```
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublishedApi internal
constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {

    companion object {
        /**
         * A constant holding the minimum value an instance of UShort can have.
         */
        public const val MIN_VALUE: UShort = UShort(0)

        /**
         * A constant holding the maximum value an instance of UShort can have.
         */
        public const val MAX_VALUE: UShort = UShort(-1)

        /**
         * The number of bytes used to represent an instance of UShort in a binary form.
         */
        public const val SIZE_BYTES: Int = 2

        /**
         * The number of bits used to represent an instance of UShort in a binary form.
         */
        public const val SIZE_BITS: Int = 16
    }

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    @Suppress("OVERRIDE_BY_INLINE")
    public override inline operator fun compareTo(other: UShort): Int = this.toUInt().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Byte): Int = this.toInt().compareTo(other.toInt())

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Int): Int = this.toInt().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Short): Int = this.toInt().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Long): Int = this.toDouble().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Float): Int = this.toDouble().compareTo(other)

    /**
     * Compares this value with the specified value for order.
     * 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     */
    @kotlin.internal.InlineOnly
    public inline operator fun compareTo(other: Double): Int = this.toDouble().compareTo(other)

    // Auto-generated file. DO NOT EDIT!

    package kotlin

    import kotlin.experimental.*

    @Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")

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@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt()) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt()) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt()) //** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt()) //** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): UInt =
this.toUInt().minus(other) //** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other) //** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt()) //** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt()) //** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other) //** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong =
this.toULong().div(other) //** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt()) //** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt()) //** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other) //** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other) //** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun inc(): UShort =
UShort(data.inc()) //** Increments this value by one. */
@kotlin.internal.InlineOnly
public inline operator fun dec(): UShort =
UShort(data.dec()) //** Decrements this value by one. */

/**
 * Converts this UShort 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 UShort.
 * Otherwise the resulting Byte value is represented by the least significant 8 bits of this UShort.
 * Note that the resulting Byte value may be negative.
 */
@kotlin.internal.InlineOnly
public inline operator fun xor(): UShort =
UShort(data.xor()) //** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun xnor(): UShort =
UShort(data.xnor()) //** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun neg(): UShort =
UShort(data.neg()) //** Inverts the bits in this value. */
@kotlin.internal.InlineOnly
public inline operator fun inv(): UShort =
UShort(data.inv()) //** Performs a bitwise NOT operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun invert(): UShort =
UShort(data.invert()) //** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun plusAssign(other: UShort): UShort =
UShort(data.plusAssign(other.data)) //** Adds the other value to this value. */
@kotlin.internal.InlineOnly
public inline operator fun minusAssign(other: UShort): UShort =
UShort(data.minusAssign(other.data)) //** Subtracts the other value from this value. */
@kotlin.internal.InlineOnly
public inline operator fun timesAssign(other: UShort): UShort =
UShort(data.timesAssign(other.data)) //** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun divAssign(other: UShort): UShort =
UShort(data.divAssign(other.data)) //** Divides this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun remAssign(other: UShort): UShort =
UShort(data.remAssign(other.data)) //** Calculates the remainder of dividing this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun andAssign(other: UShort): UShort =
UShort(data.andAssign(other.data)) //** Performs a bitwise AND operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun orAssign(other: UShort): UShort =
UShort(data.orAssign(other.data)) //** Performs a bitwise OR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun xorAssign(other: UShort): UShort =
UShort(data.xorAssign(other.data)) //** Performs a bitwise XOR operation between the two values. */
@kotlin.internal.InlineOnly
public inline operator fun xnorAssign(other: UShort): UShort =
UShort(data.xnorAssign(other.data)) //** Performs a bitwise OR operation between the two values. */

// println(UShort.toByte((UShort) 0x5A5A5A5A))
inline fun toByte(): Byte = data.toByte() /* * Converts this [UShort] value to [Short]. */

@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() and 0xFFFFFFFF /* Converts this [UShort] value to [Int]. */

@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFFFFFFFF /* Converts this [UShort] value to [Long]. */

@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte() /* * Converts this [UShort] value to [UByte]. */

@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = this /* * 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. */

@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF) /* * Converts this [UShort] value to [UInt]. */

@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF) /* * Converts this [UShort] value to [ULong]. */

@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toInt().toFloat() /* * Converts this [UShort] value to [Float]. */

@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = this.toDouble() /* * Converts this [UShort] value to [Double]. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByte.toUShort(): UShort = UShort(this.toShort()) /* * 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. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toUShort(): UShort = this /* * 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 48 bits are filled with zeros. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toUShort(): UShort = UShort(this.toShort()) /* * 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. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toUShort(): UShort = UShort(this.toShort()) /* * 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. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Byte.toUShort(): UShort = UShort(data.toShort()) /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Byte.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Short.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Int.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */

@SinceKotlin("1.3.0")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun Long.toUShort(): UShort = this /* * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `Byte` value, \n * whereas the most significant 8 bits are filled with the sign bit of this value. */
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T): Boolean = values.contains(element)
    override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }
    override fun containsAll(elements: Collection<T>): Boolean = values.containsAll(elements)
    override fun iterator(): Iterator<T> = values.iterator()
    // override hidden toArray implementation to prevent copying of values array
    public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)

/**
 * Returns an empty read-only list. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyList
 */
public fun <T> emptyList(): List<T> = ArrayList().toString()

/**
 * Returns a new read-only list of given elements. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyList
 */
public fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()

/**
 * Returns an empty new [MutableList].
 * @sample samples.collections.Collections.Lists.emptyList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableListOf(): MutableList<T> = ArrayList()

/**
 * Returns an empty new [ArrayList].
 * @sample samples.collections.Collections.Lists.emptyList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()

/**
 * Returns a new [MutableList] with the given elements.
 * @sample samples.collections.Collections.Lists.mutableList
 */
public fun <T> mutableListOf(vararg elements: T): MutableList<T> = if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))

/**
 * Returns a new [ArrayList] with the given elements.
 * @sample samples.collections.Collections.Lists.arrayList
 */
public fun <T> arrayListOf(vararg elements: T): ArrayList<T> = if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))

/**
 * Creates 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).
 * @sample samples.collections.Collections.Lists.emptyList
 */
public fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()

/**
 * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).
 * @sample samples.collections.Collections.Lists.emptyList
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()

/**
 * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified
 * [init] function.
 * The function [init] is called for each list element sequentially starting from the first one. It should return the value for
 * a list element given its index.
 * @sample samples.collections.Collections.Lists.emptyList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)

/**
 * Creates a new mutable list with the specified [size], where each element
 * is calculated by calling the specified [init] function.
 * The function [init] is called for each list element sequentially starting from the first one. It should return the value for
 * a list element given its index.
 * @sample samples.collections.Collections.Lists.emptyList
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {
    val list = ArrayList<T>(size)
    repeat(size) { index -> list.add(init(index)) }
    return list
}

/**
 * Returns an [IntRange] of the valid indices for this collection.
 * @sample samples.collections.Collections.Collections.indicesOfCollection
 */
public val Collection<*>.indices: IntRange
    get() = 0..size - 1

/**
 * Returns the index of the last item in the list or -1 if the list is empty.
 * @sample samples.collections.Collections.Collections.emptyList
 */
public val <T> List<T>.lastIndex: Int
    get() = this.size - 1

/**
 * Returns 'true' if the collection is not empty, 'false' if it is.
 * @sample samples.collections.Collections.Collections.emptyList
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.isEmpty(): Boolean = this.size == 0

/**
 * Returns 'true' if this nullable collection is either null or empty.
 * @sample samples.collections.Collections.Collections.emptyList
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.isEmpty(): Boolean = this.size == 0 ||
this.isEmpty()}

/**
 * Returns this Collection if it's not `null` and the empty list otherwise.
 * @sample samples.collections.Collections.Collections.collectionOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()

/**
 * Returns this List if it's not `null` and the empty list otherwise.
 * @sample samples.collections.Collections.Collections.Lists.orEmpty
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()

/**
 * Returns this collection if it's not empty or the result of calling [defaultValue] function if the collection is empty.
 * @sample samples.collections.Collections.Collections.collectionIfEmpty
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =
    if (isEmpty()) defaultValue() else this

/**
 * Checks if all elements in the specified collection are contained in this collection.
 * @sample samples.collections.Collections.Collections.containsAll
 */
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)

internal fun <T>
    List<T>.optimizeReadOnlyList() = when (size) {
        0 -> emptyList()
        1 -> listOf(this[0])
        else ->
            this
    }

/**
 * Searches this list or its range for the provided [element] using the binary search algorithm.
 * The list is expected to be sorted into ascending order according to the Compareable natural ordering of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the 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 still remains sorted.
 * @sample samples.Collections.Collections.Lists.binarySearchOnComparable
 */
public fun <T : Comparable<T>>
    List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
        rangeCheck(size, fromIndex, toIndex)
        var low = fromIndex
        var high = toIndex - 1
        var mid = (low + high).ushr(1) // safe from overflows
        var midVal = get(mid)
        val cmp = compareValues(midVal, element)
        if (cmp < 0) low = mid + 1
        else if (cmp > 0) high = mid - 1
        else return mid // key found
        return -(low + 1) // key not found
    }

/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function.
 * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.
 * otherwise the result is undefined.
 * If the list contains multiple elements equal to the specified [key], there is no guarantee which one will be found.
 * `null` value is considered to be less than any non-null value.
 * @return the index of the 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 still remains sorted.
 * @sample samples.Collections.Collections.Lists.binarySearchWithComparator
 */
public fun <T>
    List<T>.binarySearch(selector: (T) -> Comparable, fromIndex: Int = 0, toIndex: Int = size): Int {
        rangeCheck(size, fromIndex, toIndex)
        var low = fromIndex
        var high = toIndex - 1
        while (low <= high) {
            var mid = (low + high).ushr(1) // safe from overflows
            val midVal = get(mid)
            val cmp = comparator.compare(midVal, element)
            if (cmp < 0) low = mid + 1
            else if (cmp > 0) high = mid - 1
            else return mid // key found
            return -(low + 1) // key not found
        }
    }

/**
 * Searches this list or its range for an element having the key returned by the specified [selector] function.
 * @sample samples.Collections.Collections.Lists.binarySearchWithComparator
 */
public fun <T, Comparator<T>>
    List<T>.binarySearch(element: T, comparator: Comparator<T>, fromIndex: Int = 0, toIndex: Int = size): Int {
        rangeCheck(size, fromIndex, toIndex)
        var low = fromIndex
        var high = toIndex - 1
        while (low <= high) {
            var mid = (low + high).ushr(1) // safe from overflows
            val midVal = get(mid)
            val cmp = comparator.compare(midVal, element)
            if (cmp < 0) low = mid + 1
            else if (cmp > 0) high = mid - 1
            else return mid // key found
            return -(low + 1) // key not found
        }
    }
specified [key], if it is contained in the list within the specified range;\n* otherwise, the inverted insertion point `-insertion point - 1`.
* 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* @sample

```kotlin
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
}
```

```kotlin
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MapsKt")

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
}
```
@Suppress("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> = mapOf(pairs)

/**
 * Returns an empty read-only map.
 * The returned map is serializable (JVM).
 * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> mapOf(): Map<K, V> = emptyMap()

/**
 * Returns an empty new [MutableMap].
 * Entries of the map are iterated in the order they were specified.
 * @sample samples.collections.Maps.Instantiation.emptyMutableMap
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
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
 * @sample samples.collections.Maps.Instantiation.emptyMutableMap
 */
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
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <K, V> hashMapOf(): HashMap<K, V> =
    HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }

/**
 * 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> =
    LinkedHashMap(pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))))

/**
 * Calculate the initial capacity of a map, based on Guava's com.google.common.collect.Maps approach. This is equivalent to the Collection constructor for HashSet, (c.size()/.75f) + 1, but provides further optimisations for very small or large sizes, allows support non-collection classes, and provides consistency for all map based class construction:
 * @sample samples.collections.Maps.LinkedHashMap
 */
@PublishedApi
internal fun mapCapacity(expectedSize: Int): Int {
    if (expectedSize < 3) {
        return expectedSize + 1
    }
    if (expectedSize < INT_MAX_POWER_OF_TWO) {
        return expectedSize + expectedSize / 3
    }
    return INT_MAX_VALUE // any large value
}

private const val INT_MAX_POWER_OF_TWO: Int = Int.MAX_VALUE / 2 + 1

/** Returns `true` if this map is not empty.
 * @sample samples.collections.Maps.LinkedHashMap
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()

/**
 * Returns `true` if this nullable map is either null or empty.
 * @sample samples.collections.Maps.LinkedHashMap
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

    return this == null || isNotEmpty()
}

/**
 * Returns this map if it's not empty
 * MapOutputStream
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()
or the result of calling [defaultValue] function if the map is empty.

```kotlin
@sample
samples.collections.Maps.Usage.mapIfEmpty
```

Checks if the map contains the given key.

```kotlin
defaultValue() else this
```

This method allows to use the `\x in map` syntax for checking whether an object is contained in the map.

```kotlin
containsKey(key) \n
@sample
samples.collections.Maps.Usage.mapIfEmpty
```

```kotlin
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =
    if (isEmpty())
        defaultValue() else this
```

```kotlin
/**
 * Checks if the map contains the given key.
 */
@kotlin.internal.InlineOnly
    containsKey(key)

```

```kotlin
/**
 * Returns `true` if the map contains the specified [key].
 */
@kotlin.internal.InlineOnly
public inline fun <K> Map<K, *>.containsKey(key: K): Boolean =
    containsValue(key)
```

```kotlin
/**
 * Converts entry to [Pair] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)
```

```kotlin
/**
 * Returns the value for the given key or throws an exception if there is no such key in the map.
 */
@SinceKotlin("1.1")
public fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)
```

```kotlin
/**
 * Returns the value for the given key, or calls the [defaultValue] function,
 * puts its result into the map under the given key and returns it.
 */
public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
    defaultValue: () -> V): V {
    getOrPutIfAbsent(key, defaultValue)()
}
```

```kotlin
/**
 * Converts entry to [Pair] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)
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 * puts its result into the map under the given key and returns it.
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public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K,
    defaultValue: () -> V): V {
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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 * Converts entry to [Pair] with key being first component and value being second.
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```

```kotlin
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 * Converts entry to [Pair] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)
```

```kotlin
/**
 * Converts entry to [Pair] with key being first component and value being second.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)
```
defaultValue: () -> V): V {
    val value = get(key)
    return if (value == null) {
        val answer =
        defaultValue()
        put(key, answer)
        answer
    } else {
        value
    }
}

/**
 * Returns an [Iterator] over the entries in the [Map].
 */
@kotlin.internal.InlineOnly
public @sample.samples.collections<Maps.UseageForOverEntries
 *<K, V> Map<out K, V>.iterator():
Iterator<Map.Entry<K, V>> = entries.iterator()

/**
 * Returns a [MutableIterator] over the mutable entries in
the [MutableMap].
 */
@kotlin.jvm.JvmName("mutableIterator")
@kotlin.internal.InlineOnly
public inline operator fun <K, V> MutableMap<in K, in V>.iterator():
MutableIterator<MutableMap.MutableEntry<K, V>> =
entries.iterator()

/**
 * 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].
*/
public 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 {
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry.key
            entry.value)
        }
    }
    return result
}

/**
 * Returns a new map containing all key-value pairs with keys matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterTo(destination: Map<out K, V>, predicate: (Map.Entry<K, V>) ->
true): Map<out K, V> {
    for (entry in this) {
        if (predicate(entry)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}

/**
 * Appends all entries matching the given [predicate] into the mutable map given as 
[destination] parameter.
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterTo(destination: Map<out K, V>, predicate: (Map.Entry<K, V>) ->
true): Map<out K, V> {
    for (entry in this) {
        if (predicate(entry)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}

/**
 * Returns a new map containing all key-value pairs with values matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}

/**
 * Returns a new map containing all key-value pairs with keys matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}

/**
 * Returns a new map containing all key-value pairs with values matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterValuesTo(destination: Map<out K, V>,
transform: (Map.Entry<K, V>) ->
R): Map<out K, V> {
    for (entry in this) {
        if (predicate(entry.value)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}

/**
 * Returns a new map containing all key-value pairs with keys matching the given [predicate].
The returned map preserves the entry iteration order of the original map.
*/
public inline fun <K, V> Map<out K, V>.filterKeysTo(destination: Map<out K, V>,
transform: (Map.Entry<K, V>) ->
R): Map<out K, V> {
    for (entry in this) {
        if (predicate(entry.key)) {
            result.put(entry
            entry.key, entry.value)
        }
    }
    return result
}
destination.put(element.key, element.value)
} 

/**
 * Returns a new map containing all key-value pairs matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * * @sample samples.collections.Maps.Filtering.filter
 */
    var destination = LinkedHashMap<K, V>()
    for (element in this) {
        if (!predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

/**
 * Returns a new map containing all key-value pairs not matching the given [predicate].
 * The returned map preserves the entry iteration order of the original map.
 * * @sample samples.collections.Maps.Filtering.filterNot
 */
    var destination = LinkedHashMap<K, V>()
    for (element in this) {
        if (predicate(element)) {
            destination.put(element.key, element.value)
        }
    }
    return destination
}

/**
 * Returns a new map containing all key-value pairs from the given collection of pairs.
 * * @sample samples.collections.Maps.AsyncToMap
 */
public fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyMap()
            1 -> mapOf(if (this is List) this[0] else iterator().next())
            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))
        }
    }
    return toMap(LinkedHashMap<K, V>(this)).optimizeReadOnlyMap()
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs from the given collection.
 * * @sample samples.collections.Maps.AsyncToMap
 */
    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].
 * * @sample samples.collections.Maps.AsyncToMap
 */
    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].
 * * @sample samples.collections.Maps.AsyncToMap
 */
public fun <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 collection of pairs.
 * * @sample samples.collections.Maps.AsyncToMap
 */
    destination.apply { putAll(this@toMap) }
Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.*

    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].
 */
    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].
 */
    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 another [map].
 */
    LinkedHashMap(this).apply { putAll(map) }

/**
 * Appends or replaces the given [pair] in this mutable map.
 */
@kotlin.internal.InlineOnly
public inline operator fun <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.
 */
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {
    putAll(pairs)
}

/**
 * Appends or replaces all pairs from the given array of [pairs] in this mutable map.
 */
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {
    putAll(pairs)
}

/**
 * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.
 */
public inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {
    putAll(pairs)
}

/**
 * Appends or replaces all entries from the given [map] in this mutable map.
 */
@kotlin.internal.InlineOnly
public 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].
 */
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(key) }

/**
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] collection.
 */
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(keys) }

/**
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] array.
 */
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(keys) }

/**
 * Returns a map containing all entries of the original map except those entries
 * the keys of which are contained in the given [keys] sequence.
 */
@SinceKotlin("1.1")
    this.toMutableMap().apply { minusAssign(keys) }

/**
 * Removes the entry with the given [key] from this mutable map.
 */
@SinceKotlin("1.1")
public inline operator fun <K, V> MutableMap<in K, V>.removeAssign(key: K) {
    remove(key)
}

/**
 * Removes all entries the keys of which are contained in the given [keys] from this mutable map.
 */
@SinceKotlin("1.1")
public inline operator fun <K, V> MutableMap<in K, V>.removeAssign(keys: Iterable<K>) {
    removeAll(keys)
}

/**
 * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.
 */
@SinceKotlin("1.1")
public inline operator fun <K, V> MutableMap<in K, V>.removeAssign(keys: Array<K>) {
    removeAll(keys)
}

/**
 * Removes all entries the keys of which are contained in the given [keys] sequence from this mutable map.
 */
@SinceKotlin("1.1")
public inline operator fun <K, V> MutableMap<in K, V>.removeAssign(keys: Sequence<K>) {
    removeAll(keys)
}
@SinceKotlin("1.1")
public 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")
public 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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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SetsKt")

package kotlin.collections

internal object EmptySet : Set<Nothing>, Serializable {
    private const val serialVersionUID: Long = 3406603774387020532

    override fun equals(other: Any?): Boolean = other is Set<*>
    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

    private fun readResolve(): Any = EmptySet
}

/**
 * Returns an empty read-only set. The returned set is serializable (JVM).
 */
public fun <T> emptySet(): Set<T> = EmptySet

/**
 * Returns a new read-only set with the given elements.
 * Elements of the set are iterated in the order they were specified.
 */
@kotlin.internal.InlineOnly
public inline fun <T> setOf(): Set<T> = emptySet()

/**
 * Returns an empty new [MutableSet].
 * Elements of the set are iterated in the order they were specified.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()

/** Returns this Set if it's not `null` and the empty set otherwise.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>?.orElseEmpty(): Set<T> = this ?: emptySet()

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("StringsKt")

package kotlin.text

/**
 * Parses the string as a signed [Byte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.1")
public fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)
fun ulongDivide(v1: ULong, v2: ULong): ULong {
    val dividend = v1.toLong()
    val divisor = v2.toLong()
    if (divisor < 0) { // i.e., divisor >= 2^63
        return if (v1 < v2)
            ULong(0)
        else {
            ULong(1)
        }
    }

    // Optimization - use unsigned division if both dividend and divisor < 2^63
    if (dividend < 0) { // i.e., dividend >= 2^63
        return if (v1 < v2)
            ULong(dividend / divisor)
        else {
            ULong(dividend % divisor)
        }
    }

    // Optimization - use signed modulus if both dividend and divisor < 2^63
    if (dividend >= 0) {
        return ULong(dividend / divisor)
    }

    // Otherwise, approximate the quotient, check, and correct if necessary.
    val quotient = ((dividend shr 1) / divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)
}

fun ulongRemainder(v1: ULong, v2: ULong): ULong {
    val dividend = v1.toLong()
    val divisor = v2.toLong()
    if (divisor < 0) { // i.e., divisor >= 2^63
        return if (v1 < v2)
            v1
        else {
            v1 - v2
        }
    }

    // Optimization - use unsigned modulus if both dividend and divisor < 2^63
    if (dividend >= 0) {
        return ULong(dividend % divisor)
    }

    // Otherwise, approximate the quotient, check, and correct if necessary.
    val quotient = ((dividend shr 1) / divisor) shl 1
    val rem = dividend - quotient * divisor
    return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)
}

fun doubleToUInt(v: Double): UInt = when {
    v.isNaN() -> 0u
    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE
    v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE
    v <= Int.MAX_VALUE -> v.toInt().toUInt()
    else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()      // Int.MAX_VALUE < v < UInt.MAX_VALUE
}

fun doubleToULong(v: Double): ULong = when {
    v.isNaN() -> 0u
    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE
    v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE
    v < Long.MAX_VALUE -> v.toLong().toULong()
    else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL      // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE
}

fun ulongToString(v: Long): String = ulongToString(v, 10)

fun ulongToString(v: Long, base: Int): String {
    if (v >= 0) return v.toString(base)

    var quotient = ((v ushr 1) / base) shl 1
    var rem = v - quotient * base

    if (rem >= base) {
        rem -= base
        quotient += 1
    }
    return quotien}
Returns true when it's safe to convert this collection to a set without changing contains method behavior. */

private
fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList

/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */
internal fun <T>
    Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =
    when (this) {
        is Collection ->
            when {
                source is Collection && source.size < 2 -> this
                else -> if (this.safeToConvertToSet()) toHashSet() else this
            }
        else -> toHashSet()
    }

// Return a single list of all elements from all collections in the given collection.

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")

package kotlin.sequences

/**
 * Given an [iterator] function constructs a [Sequence] that returns values through the
 * [Iterator] provided by that function. The values are evaluated lazily, and the sequence is potentially
 * infinite. * @sample samples.collections.Sequences.Building.sequenceFromIterator
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {
    override fun iterator(): Iterator<T> = iterator()
}

/**
 * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.
 */
public fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()

/**
 * Creates a sequence that returns the specified values.
 */
public fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else
    elements.asSequence()

/**
 * Returns an empty sequence.
 */
public fun <T> emptySequence(): Sequence<T> = EmptySequence

private object EmptySequence : Sequence<Nothing>,
    DropTakeSequence<Nothing> {
    override fun iterator(): Iterator<Nothing> = EmptyIterator
    override fun
drop(n: Int) = EmptySequence
    override fun take(n: Int) = EmptySequence
}

/**
 * Returns a sequence if it's not `null` and the empty sequence otherwise.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()
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> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n1) else SubSequence(sequence, count, n1) }

    override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n1) else SubSequence(sequence, count, n1) }

    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var left = count

        // Shouldn't be called from constructor to avoid premature iteration
        private fun drop() {
            while (left > 0 && iterator.hasNext()) {
                iterator.next()
                left--
            }
        }

        override fun next(): T {
            drop()
            return iterator.next()
        }

        override fun hasNext(): Boolean {
            drop()
            return iterator.hasNext()
        }
    }
}

/**
 * A sequence that skips the values from the underlying [sequence] while the given
 * [predicate] returns `true` and returns * all values after that.
 */
internal class DropWhileSequence<T>
constructor(
    private val sequence: Sequence<T>,
    private val predicate: (T) -> Boolean
) : Sequence<T> {

    override fun iterator(): Iterator<T> = object : Iterator<T> {
        val iterator = sequence.iterator()
        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration
        var nextItem: T? = null

        private fun drop() {
            while (iterator.hasNext()) {
                val item = iterator.next()
                if (!predicate(item)) {
                    nextItem = item
                    dropState = 1
                    return
                }
            }
            dropState = 0
        }

        override fun next(): T {
            if (dropState == -1)
                drop()

            if (dropState == 1) {
                @Suppress("UNCHECKED_CAST")
                val result = nextItem as T
                nextItem = null
                dropState = 0
                return result
            }
            return iterator.next()
        }

        override fun hasNext(): Boolean {
            if (dropState == -1)
                drop()
            return dropState == 1 || iterator.hasNext()
        }
    }
}

internal class DistinctSequence<T, K>(private val source: Sequence<T>,
    private val keySelector: (T) -> K) : Sequence<T> {
    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)
}

private class DistinctIterator<T, K>(private val source: Iterator<T>,
    private val keySelector: (T) -> K) : AbstractIterator<T>() {
    private val observed = HashSet<K>()

    override fun computeNext() {
        while (source.hasNext()) {
            val next = source.next()
            val key = keySelector(next)

            if (observed.add(key)) {
                setNext(next)
                return
            }
        }
        throw NoElementElementException()
    }
}

/**
 * Returns a wrapper sequence that provides
 * values of this sequence, but ensures it can be iterated only one time. The operation is _intermediate_ and
 * _stateless_. 
 * 
 * @see GeneratorSequence
 */
public fun <T> Sequence<T>.constrainOnce(): Sequence<T> {
    return if (this is ConstrainedOnceSequence<T>) this
    else ConstrainedOnceSequence(this)
}

/**
 * Returns a sequence which
 * invokes the function to calculate the next value on each iteration until the function returns `null`. The
 * operation is _intermediate_ and
 * _stateless_. 
 * 
 * @see GeneratorSequence
 */
public fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {
    return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce() as Sequence<T>
}
the previous one on each iteration. The sequence produces values until it encounters first `null` value. If [seed] is `null`, an empty sequence is produced. The sequence can be iterated multiple times, each time starting with [seed]. The sequence can be iterated multiple times. The sequence can be iterated multiple times. The sequence can be iterated multiple times.

```kotlin
@kotlin.internal.LowPriorityInOverloadResolution
public fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =
    if (seed == null)
        EmptySequence
    else
        GeneratorSequence({ seed }, nextFunction)
```

```kotlin
@kotlin.internal.LowPriorityInOverloadResolution
public fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =
    if (seed == null)
        EmptySequence
    else
        GeneratorSequence(seed, nextFunction)
```

```kotlin
@package
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("PreconditionsKt")

import kotlin.contracts.contract

/**
 * Throws an [IllegalArgumentException] if the [value] is false.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    require(value) { "Failed requirement." }
}

/**
 * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failRequireWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalArgumentException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean): Unit {
    contract {
        returns() implies value
    }
    check(value) { "Check failed." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {
    contract {
        returns() implies value
    }
    if (!value) {
        val message = lazyMessage()
        throw IllegalStateException(message.toString())
    }
}

/**
 * Throws an [IllegalStateException] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?): T {
    contract {
        returns() implies (value != null)
    }
    return checkNotNull(value) { "Required value was null." }
}

/**
 * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise returns the not null value.
 * @sample samples.misc.Preconditions.failCheckWithLazyMessage
 */
@kotlin.internal.InlineOnly
public inline fun checkNotNull(value: T?, lazyMessage: () -> Any): T {
    contract {
        returns() implies (value != null)
    }
    if (value == null) {
        val message = lazyMessage()
        throw
```
IllegalStateException(message.toString())
    } else {
        return value
    }
}

/**
 * Throws an
 * [IllegalStateException] with the given [message].
 * @param message
 * @return
 */
@kotlin.internal.InlineOnly
public inline fun error(message: Any): Nothing = throw

@Deprecated
public val build: Boolean = true

//
// NOTE: THIS FILE IS AUTO-GENERATED
//
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.js.*
import primitiveArrayConcat
import withType
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun <T> Array<out T>.elementAt(index: Int): T =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun ByteArray.elementAt(index: Int): Byte =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun ShortArray.elementAt(index: Int): Short =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun IntArray.elementAt(index: Int): Int =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun LongArray.elementAt(index: Int): Long =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun FloatArray.elementAt(index: Int): Float =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun DoubleArray.elementAt(index: Int): Double =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns an element at the given [index] or throws an
 * [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 * @param index
 * @return
 */
public actual fun BooleanArray.elementAt(index: Int): Boolean =
    elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
public actual fun <T> Array<out T>.asList(): List<T> =
    ArrayList<T>(this.unsafeCast<Array<Any?>>())

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun ByteArray.asList(): List<Byte> =
    this.unsafeCast<Array<Byte>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun ShortArray.asList(): List<Short> =
    this.unsafeCast<Array<Short>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun IntArray.asList(): List<Int> =
    this.unsafeCast<Array<Int>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun LongArray.asList(): List<Long> =
    this.unsafeCast<Array<Long>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun FloatArray.asList(): List<Float> =
    this.unsafeCast<Array<Float>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun DoubleArray.asList(): List<Double> =
    this.unsafeCast<Array<Double>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun BooleanArray.asList(): List<Boolean> =
    this.unsafeCast<Array<Boolean>>().asList()

/**
 * Returns a [List] that wraps the original array.
 * @return
 */
@kotlin.internal.InlineOnly
public actual inline fun CharArray.asList(): List<Char> =
    this.unsafeCast<Array<Char>>().asList()
public actual inline fun LongArray.asList(): List<Long> {
    return this.unsafeCast<Array<Long>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
public actual inline fun FloatArray.asList(): List<Float> {
    return this.unsafeCast<Array<Float>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
public actual inline fun DoubleArray.asList(): List<Double> {
    return this.unsafeCast<Array<Double>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
public actual inline fun BooleanArray.asList(): List<Boolean> {
    return this.unsafeCast<Array<Boolean>>().asList()
}

/**
 * Returns a [List] that wraps the original array.
 */
public actual fun CharArray.asList(): List<Char> {
    return object : AbstractList<Char>(), RandomAccess {

        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()

        override fun contains(element: Char): Boolean = this@asList.contains(element)

        override fun get(index: Int): Char {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }

        override fun indexOf(element: Char): Int {
            if ((element as Any?) !is Char) return -1
            return this@asList.indexOf(element)
        }

        override fun lastIndexOf(element: Char): Int {
            if ((element as Any?) !is Char) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}

/**
 * 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.
 */
public actual fun CharArray.contentDeepEquals(other: CharArray): Boolean {
    definedExternally
}

/**
 * Returns a hash code based on the contents of this array as if it is a [List]. Nested arrays are treated as lists too.
 */
public actual fun CharArray.contentDeepHashCode(): Int {
    definedExternally
}

/**
 * Returns a string representation of the contents of this array as if it is a [List]. Nested arrays are treated as lists too.
 */
public actual fun CharArray.contentDeepToString(): String {
    definedExternally
}

/**
 * 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.
 */
public actual infix fun CharArray.contentEquals(other: CharArray): Boolean {
    definedExternally
}

/**
 * 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.
 */
public actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {
    definedExternally
}

/**
 * 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.
 */
public actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {
    definedExternally
}
means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.

```kotlin
public actual infix fun IntArray.contentEquals(other: IntArray): Boolean {
    definedExternally
}
public actual infix fun LongArray.contentEquals(other: LongArray): Boolean {
    definedExternally
}
public actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {
    definedExternally
}
public actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {
    definedExternally
}
public actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {
    definedExternally
}
public actual infix fun CharArray.contentEquals(other: CharArray): Boolean {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun ByteArray.contentHashCode(): Int {
    definedExternally
}
public actual fun ShortArray.contentHashCode(): Int {
    definedExternally
}
public actual fun IntArray.contentHashCode(): Int {
    definedExternally
}
public actual fun LongArray.contentHashCode(): Int {
    definedExternally
}
public actual fun FloatArray.contentHashCode(): Int {
    definedExternally
}
public actual fun DoubleArray.contentHashCode(): Int {
    definedExternally
}
public actual fun BooleanArray.contentHashCode(): Int {
    definedExternally
}
public actual fun CharArray.contentHashCode(): Int {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```

```kotlin
public actual fun <T> Array<out T>.contentHashCode(): Int {
    definedExternally
}
public actual fun <T> Array<out T>.contentToString(): String {
    definedExternally
}
```
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun <T> Array<out T>.contentToString():
    String {
        definedExternally
    }

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ByteArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun ShortArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun IntArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun LongArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun FloatArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun DoubleArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun BooleanArray.contentToString(): String {
    definedExternally
}

/**
 * Returns a string representation of the contents of the specified array as if it is
[Array]

*/
@SinceKotlin("1.1")
@library("arrayToString")
public actual fun CharArray.contentToString(): String {
    definedExternally
}

/**
 * Copies this array or its subrange into the [destination] array and returns that
array.

*/
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\)
public actual inline fun <T> Array<out T>.copyInto(destination: Array<T>,
    destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {
    arrayCopy(this, destination, destinationOffset,
        startIndex, endIndex)
    return destination
}
public actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size) = arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * @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`.
 * @return the [destination] array.
 */
public actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size) = arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * @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`.
 * @return the [destination] array.
 */
public actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size) = arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * @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`.
 * @return the [destination] array.
 */
public actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size) = arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)
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 indices range.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.

* @param endIndex the end (exclusive) of the subrange to copy, 0 by default.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.

* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

* @param destination the array to copy to.

* @param destinationOffset the position in the [destination] array to copy to.
* Returns new array which is a copy of the original array.

```kotlin
@sample
samples.collections.Arrays.CopyOfOperations.copyOf

* Returns new array which is a copy of the original array.

```
values.* 

@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

public actual fun LongArray.copyOf(newSize: Int): LongArray { 
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("LongArray", arrayCopyResize(this, newSize, 0L))
}

public actual fun FloatArray.copyOf(newSize: Int): FloatArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, FloatArray(newSize))
}

public actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return fillFrom(this, DoubleArray(newSize))
}

public actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("BooleanArray", arrayCopyResize(this, newSize, false))
}

public actual fun CharArray.copyOf(newSize: Int): CharArray {
    require(newSize >= 0) { "Invalid new array size: $newSize." }
    return withType("CharArray", fillFrom(this, CharArray(newSize)))
}

public actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

public actual fun Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}
@param fromIndex the start of the range (inclusive), must be in `0..array.size`
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`

public actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

public actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

public actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("LongArray", this.asDynamic().slice(fromIndex, toIndex))
}

public actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return this.asDynamic().slice(fromIndex, toIndex)
}

public actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("BooleanArray", this.asDynamic().slice(fromIndex, toIndex))
}

public actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    return withType("CharArray", this.asDynamic().slice(fromIndex, toIndex))
}

private fun <T> AbstractList.checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {
    val from = if (fromIndex < 0) fromIndex + size else fromIndex
    val to = if (toIndex < 0) toIndex + size else toIndex
    if (from >= size) throw IndexOutOfBoundsException("fromIndex")
    if (to > size) throw IndexOutOfBoundsException("toIndex")
    if (from > to) throw IllegalArgumentException("fromIndex")
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteBuffer.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}

@SinceKotlin("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun ByteBuffer.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex)
}
fromIndex the start of the range (inclusive), 0 by default.
* @param toIndex the end of the range (exclusive), size of this array by default.
* @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].

*\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}\n\n*\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}\n\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}\n\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    this.asDynamic().fill(element, fromIndex, toIndex)\n}
fromIndex the start of the range (inclusive), 0 by default. @param toIndex the end of the range (exclusive), size of this array by default. @param element the given [element].
 * @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("1.3")
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, fromIndex, toIndex);
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ByteArray.plus(element: Byte): ByteArray {
    return plus(byteArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then the given [element].
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun CharArray.plus(element: Char): CharArray {
    return plus(charArrayOf(element))
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun IntArray.plus(elements: Collection<Int>): IntArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun LongArray.plus(elements: Collection<Long>): LongArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@Suppress("NOTHING_TO_INLINE")
public actual inline operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
all elements of the original array and then all elements of the given [elements] collection.

```kotlin
operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
```

```kotlin
operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
```

```kotlin
operator fun CharArray.plus(elements: Collection<Char>): CharArray {
    return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)
}
```

```kotlin
operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {
    return this.asDynamic().concat(elements)
}
```

```kotlin
operator fun ByteArray.plus(elements: ByteArray): ByteArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun ShortArray.plus(elements: ShortArray): ShortArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun IntArray.plus(elements: IntArray): IntArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun LongArray.plus(elements: LongArray): LongArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun FloatArray.plus(elements: FloatArray): FloatArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
operator fun CharArray.plus(elements: CharArray): CharArray {
    return primitiveArrayConcat(this, elements)
}
```

```kotlin
fun <T> Array<out T>.plusElement(element: T): Array<T> {
    return this.asDynamic().concat(arrayOf(element))
}
```

```kotlin
fun IntArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun LongArray.sort(): Unit {
    if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }
}
```

```kotlin
fun ByteArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun ShortArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun IntArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun LongArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun FloatArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun DoubleArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun BooleanArray.sort(): Unit {
    definedExternally
}
```

```kotlin
fun CharArray.sort(): Unit {
    definedExternally
}
```
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*\n* @file:kotlin.jvm.JvmName("ComparisonsKt")\n* @file:kotlin.jvm.JvmMultifileClass
**\n**\npackage kotlin.comparisons
**\n**\n/**
* Compares two values using the specified functions [selectors] to calculate the result of the comparison.
* The functions are called sequentially, receive the given values [a] and [b] and return [Comparable] objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not compare as equal, the result of that comparison is returned.
**\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithSelectors
*/
@kotlin.internal.InlineOnly
public fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>)?: Int { require(selectors.size > 0) return compareValuesByImpl(a, b, selectors) }

private fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>>?) { Int { fn for (fn in selectors) { val v1 = fn(a) val v2 = fn(b) val diff = compareValues(v1, v2) if (diff != 0) return diff } return 0 } }

/**
 * Compares two values using the specified [selector] function to calculate the result of the comparison.
 * The function is applied to the given values [a] and [b] and return [Comparable] objects.
 **\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector
*/
@kotlin.internal.InlineOnly
public inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>)?: Int = compareValues(selector(a), selector(b))

/**
 * Compares two values using the specified [selector] function to transform values being compared and then applying [comparator] to compare transformed values.
**\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithComparator
*/
@kotlin.internal.InlineOnly
public inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int = comparator.compare(selector(a), selector(b))

// Not so useful without type inference for receiver of expression\n// thenByDescending { it.prop2 }\n
/**
 * Creates a comparator using the sequence of functions to calculate a result of comparison.
 * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable] objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not compare as equal, the result of that comparison is returned from the [Comparator].
 **\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithSelectors
*/
public fun <T> compareBy(vararg selectors: (T) -> Comparable<*>)?: Comparator<T> { require(selectors.size > 0) return compareByImpl(a, b, selectors) }

private fun <T> compareByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>>?) { Int { fn for (fn in selectors) { val v1 = fn(a) val v2 = fn(b) val diff = compareValues(v1, v2) if (diff != 0) return diff } return 0 } }

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 **\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector
*/
@kotlin.internal.InlineOnly
public inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> = Comparator { a, b -> compareValuesByImpl(a, b, selector) }

/**
 * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.
 **\n**\n* @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector
*/
@kotlin.internal.InlineOnly
public inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>)?: Comparator<T> = Comparator { a, b -> compareValuesByImpl(b, a, selector) }

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```
Creates a descending comparator using the [selector] function to transform values being compared and then applying the specified [comparator] to compare transformed values. Note that an order of [comparator] is reversed by this wrapper.

```kotlin
@kotlin.internal.InlineOnly
public inline fun <T, K> Comparator<T>.thenByDescending(crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b ->
        val previousCompare = this@thenByDescending.compare(a, b)
        if (previousCompare != 0) previousCompare else compareValuesBy(selector(a), selector(b))
    }

/** *
 * Extends the given [comparator] of non-nullable values to a comparator of nullable values
 * considering `null` value less than any other value.
 */
public fun <T : Any> Comparator<T>.nullsFirst(comparator: Comparator<T>): Comparator<T> =
    Comparator { a, b ->
        when {
            a === b -> 0
            a == null -> -1
            b == null -> 1
            else -> comparator.compare(a, b)
        }
    }
```
/**
 * Provides a comparator of nullable [Comparable] values considering `null` value less than any other value.
 * @returns the comparator
 * @sample samples.comparisons
 */
@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())

/**
 * Extends the given [comparator] of non-nullable values to a comparator of nullable values considering `null` value greater than any other value.
 * @returns the comparator
 * @sample samples.comparisons
 */
@kotlin.internal.InlineOnly
public inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())

/**
 * Returns a comparator that compares [Comparable] objects in natural order.
 * @returns the comparator
 * @sample samples.comparisons
 */
public fun <T : Comparable<T>> naturalOrder(): Comparator<T> = (NaturalOrderComparator as Comparator<T>)

/**
 * Returns a comparator that compares [Comparable] objects in reversed natural order.
 * @returns the comparator
 * @sample samples.comparisons
 */
public fun <T : Comparable<T>> reverseOrder(): Comparator<T> = (ReverseOrderComparator as Comparator<T>)

/**
 * Returns a comparator that imposes the reverse ordering of this comparator.
 * @returns the comparator
 * @sample samples.comparisons
 */
public fun <T : Comparable<T>> comparator.reversed(): Comparator<T> = when (this) {
    is ReversedComparator -> this.comparator
    NaturalOrderComparator -> (ReverseOrderComparator as Comparator<T>)
    ReverseOrderComparator -> (NaturalOrderComparator as Comparator<T>)
    else -> ReversedComparator(this)
}

private class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {
    override fun compare(a: T, b: T): Int = comparator.compare(b, a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<T> = comparator
}

private object NaturalOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator
}

private object ReverseOrderComparator : Comparator<Comparable<Any>> {
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)
    @Suppress("VIRTUAL_MEMBER_HIDDEN")
    fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator
}

class NotImplementedError(message: String = "An operation is not implemented.") : Error(message)

// Always throws [NotImplementedError] stating that operation is not implemented.
@kotlin.internal.InlineOnly
public inline fun TODO(): Nothing = throw NotImplementedError()

// Always throws [NotImplementedError] stating that operation is not implemented.
@kotlin.internal.InlineOnly
public inline fun TODO(reason: String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")
@kotlin.internal.InlineOnly
public inline fun <R> run(block: () -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    } return block()??*
} * Calls the specified function [block] with `this` value as its receiver and returns its result. *

@kotlin.internal.InlineOnly
public inline fun <T, R> T.run(block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    } return block()??*
} * Calls the specified function [block] with the given `receiver` as its receiver and returns its result. *

@kotlin.internal.InlineOnly
public inline fun <T, R> T.let(block: T.() -> R): R {
    contract {
        callsInPlace(block, InvocationKind.EXACTLY_ONCE)
    } return block()??*
} * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
    return if (a >= b) a
        else b
}

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte): Byte {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short): Short {
    return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()
}

@kotlin.internal.InlineOnly
public inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    } return if (predicate(this)) this else null??*
} * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't. *

@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
    contract {
        callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)
    } return if (!predicate(this)) this else null??*
} * Returns `this` value if it does not satisfy the given [predicate] or `null`, if it does. *

@kotlin.internal.InlineOnly
@SinceKotlin("1.1")
public inline fun repeat(times: Int, action: (Int) -> Unit) {
    contract {
        callsInPlace(action)
    } for (index in 0 until times) {
        action(index)
    }
}
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Int, b: Int): Int {
    return Math.max(a, b)
} * Returns the greater of two values.

@SinceKotlin("1.1")
@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")
public actual inline fun maxOf(a: Long, b: Long): Long {
    return if (a >= b) a else b
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float): Float {
    return Math.max(a, b)
} * Returns the greater of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double): Double {
    return Math.max(a, b)
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Short, b: Short, c: Short): Short {
    return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Int, b: Int, c: Int): Int {
    return Math.max(a, b, c)
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Long, b: Long, c: Long): Long {
    return Math.max(a, maxOf(b, c))
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Float, b: Float, c: Float): Float {
    return Math.max(a, b, c)
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun maxOf(a: Double, b: Double, c: Double): Double {
    return Math.max(a, b, c)
} * Returns the greater of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Byte, b: Byte): Byte {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Short, b: Short): Short {
    return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Int, b: Int): Int {
    return Math.min(a, b)
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")
public actual inline fun minOf(a: Long, b: Long): Long {
    return if (a <= b) a else b
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Float, b: Float): Float {
    return Math.min(a, b)
} * Returns the smaller of two values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Double, b: Double): Double {
    return Math.min(a, b)
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
    return Math.min(a, maxOf(b, c))
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
} * Returns the smaller of three values.

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
    return Math.min(a, b, c)
} * Returns the smaller of three values.
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Short, b: Short, c: Short): Short {
    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Int, b: Int, c: Int): Int {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Long, b: Long, c: Long): Long {
    return minOf(a, minOf(b, c))
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Float, b: Float, c: Float): Float {
    return Math.min(a, b, c)
}

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
@Suppress("DEPRECATION_ERROR")
public actual
inline fun minOf(a: Double, b: Double, c: Double): Double {
    return Math.min(a, b, c)
}

/**
 * Returns 1st *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component1(): T {
    return get(0)
}

/**
 * Returns 2nd *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component2(): T {
    return get(1)
}

/**
 * Returns 3rd *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component3(): T {
    return get(2)
}

/**
 * Returns 4th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
    return get(3)
}

/**
 * Returns 5th *element* from the collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component5(): T {
    return get(4)
}

/**
 * Returns `true` if *element* is found in the collection.
 */
public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {
    if (this is Collection)
        return contains(element)
    return indexOf(element) >= 0
}

/**
 * Returns an element at the given *index* or throws an *IndexOutOfBoundsException* if the *index* is out of bounds of this collection.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public fun <T> Iterable<T>.elementAt(index: Int): T {
    if (this is List)
        return get(index)
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Collection doesn't contain element at index $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 collection.
 * 
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 */
@kotlin.internal.InlineOnly
public inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
Iterateable<T>.elementAtOrNull(index: Int): T? {\n    if (this is List) return this.getOrNull(index)\n    if (index < 0) return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) \n        if (index == count++) \n            return iterator.next() \n    return null\n}\n
Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n
List<T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n
Returns the first element matching the given [predicate], or `null` if no such element was found.\n
Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
List<T>.first(): T \nwhen (this) \nif (isEmpty()) throw NoSuchElementException("List is empty.") \nelse return this[0]\n
Returns the first element, or `null` if the list is empty.\n
Iterable<T>.firstOrNull(): T? \nwhen (this) \nif (isEmpty()) return null \nelse return this[0]\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
List<T>.getOrNull(index: Int): T? \nwhen (this) \nif (isEmpty()) return null \nelse return this[0]\n
Returns an element at the given [index] or `null` if the index is out of bounds of this list.\n
List<T>.indexOf(element: T): Int \nwhen (this) \nif (isEmpty()) throw NoSuchElementException("List is empty.") \nelse return this.indexOf(element)\n
Returns index of the first element matching the given [predicate], or -1 if the collection does not contain element.\n
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int \nwhen (this) \nif (isEmpty()) return -1 \nelse return this.indexOfFirst(predicate)\n
Returns index of the first element matching the given [predicate], or -1 if the collection does not contain element.\n
List<T>.indexOfLast(predicate: (T) -> Boolean): Int \nwhen (this) \nif (isEmpty()) return -1 \nelse return this.indexOfLast(predicate)\n
Returns index of the last element matching the given [predicate], or -1 if the collection does not contain element.\n
List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T \nwhen (this) \nif (isEmpty()) return defaultValue(index) \nelse return this[0]\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
List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        var found = false\n        var lastIndex = -1\n        for (item in this) {\n            checkIndexOverflow(index)\n            if (predicate(item)) {\n                index++\n                return index\n            }\n        }\n    }\n    throw NoSuchElementException("List contains no element matching the predicate.")\n}

List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var index = 0\n    var lastIndex = -1\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item)) {\n            lastIndex = index\n            index++\n        }\n    }\n    if (isEmpty())\n        throw NoSuchElementException("List is empty.")\n    return lastIndex\n}

List<T>.indexOf(predicate: (T) -> Boolean): Int {\n    var index = 0\n    var lastIndex = -1\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item)) {\n            index++\n            return index\n        }\n    }\n    throw NoSuchElementException("List contains no element matching the given predicate.",\n        "\n            if no such element is found.
        \n    }\n}

List<T>.lastOrNull(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("Collection contains no element matching the predicate.")\n    return last as T
}

List<T>.lastOrNull(): T? {\n    if (isEmpty())\n        throw NoSuchElementException("List is empty.")\n    return this[index - 1]\n}

List<T>.last(): T {\n    if (isEmpty())\n        throw NoSuchElementException("List is empty.")\n    return this[listIndex - 1]\n}

@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return random(Random)\n}

/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.\n */\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.randomLast(predicate: (T) -> Boolean): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return this[lastIndex]\n}

@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return random(Random)\n}

/**\n * Returns a random element from this collection using the specified source of randomness.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return random(Random)\n}

/**\n * Returns a random element from this collection using the specified source of randomness.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.randomLast(predicate: (T) -> Boolean): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return this[lastIndex]\n}

@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.randomLast(predicate: (T) -> Boolean): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return this[lastIndex]\n}

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@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.randomLast(predicate: (T) -> Boolean): T {\n    if (isEmpty())\n        throw NoSuchElementException("Collection is empty.")\n    return this[lastIndex]
throw NoSuchElementException("The collection is empty.")
    return elementAt(random.nextInt(size))
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
 * @return a list containing all elements except last n elements.
 * @throws IllegalArgumentException if n is negative.
 */
public fun <T> List<T>.dropLast(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()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
 * @return a list containing all elements except first n elements.
 * @throws IllegalArgumentException if n is negative.
 */
public fun <T> List<T>.dropFirst(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()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

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 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
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        list = ArrayList<T>(resultSize)
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        if (count >= n) list.add(item) else ++count
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    if (n == 0) return toList()
    val list: ArrayList<T>
    if (this is Collection<*>) {
        val resultSize = size - n
        if (resultSize <= 0)
            return emptyList()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
 * @return a list containing all elements except first n elements.
 * @throws IllegalArgumentException if n is negative.
 */
public fun <T> List<T>.dropFirst(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()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
 * @return a list containing all elements except first n elements.
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    if (n == 0) return toList()
    val list: ArrayList<T>
    if (this is Collection<*>) {
        val resultSize = size - n
        if (resultSize <= 0)
            return emptyList()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
}

/**
 * Returns the single element, or throws an exception if the collection is empty or has more than one element.
 * @param n the number of elements to return.
 * @return a list containing all elements except first n elements.
 * @throws IllegalArgumentException if n is negative.
 */
public fun <T> List<T>.dropFirst(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()
        list = ArrayList<T>(resultSize)
    } else if (this is List<T>) {
        list = ArrayList<T>(n).coerceAtLeast(0)
    }
    var count = 0
    for (item in this) {
        if (count >= n) list.add(item) else ++count
    }
    return list.optimizeReadOnlyList()
if (expectedSize == 0) return emptyList()
        return ArrayList<T>(expectedSize).apply {
            while (iterator.hasNext())
                add(iterator.next())
        }
    }
    return toList()
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 * @sample samples.collections.Collections.Transformations.take
 */
public inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {
    var list = ArrayList<T>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    @Suppress("UNCHECKED_CAST")
    return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {
    if (this is Collection) {
        if (size <= 1)
            return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()
    }
    return toMutableList().apply { sort() }
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> MutableList<T>.sortBy(selector: (T) -> R?): Unit {
    sortWith(compareBy(selector))
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> Iterable<T>.sortBy(selector: (T) -> R?): List<T> {
    return sortedWith(compareBy(selector))
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {
    sortWith(reverseOrder())
}

/**
 * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.
 */
public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {
    return sortedWith(reverseOrder())
}

/**
 * Returns a list of all elements sorted according to specified [comparator].
 */
public fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {
    if (this is Collection) {
        if (size <= 1)
            return this.toList()
        @Suppress("UNCHECKED_CAST")
        return (toTypedArray<Comparable<T>>() as Array<T>).apply { sortWith(comparator) }.asList()
    }
    return toMutableList().apply { sortWith(comparator) }
}

/**
 * Returns a list of elements sorted descending according to their natural sort order.
 */
public fun <T : Comparable<T>> MutableList<T>.sortedDescending(): List<T> {
    return sortWith(reverseOrder())
}

/**
 * Returns a list of elements sorted according to their natural sort order.
 */
public fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {
    return sortWith(reverseOrder())
}

/**
 * Returns an array of Boolean containing all of the elements of this collection.
 */
public fun Collection<Boolean>.toBooleanArray(): BooleanArray {
    val result = BooleanArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Byte containing all of the elements of this collection.
 */
public fun Collection<Byte>.toByteArray(): ByteArray {
    val result = ByteArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Char containing all of the elements of this collection.
 */
public fun Collection<Char>.toCharArray(): CharArray {
    val result = CharArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Double containing all of the elements of this collection.
 */
public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Int containing all of the elements of this collection.
 */
public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Array containing all of the elements of this collection.
 */
public fun Collection<Array<*>>.toArray(): Array<Array<*>> {
    val result = Array(size) {.ArrayList()} as Array<Array<*>>
    for (element in this)
        result[index++] = ArrayList(element)
    return result
}

/**
 * Returns an array of ArrayList containing all of the elements of this collection.
 */
public fun Collection<MutableList<*>>.toList(): List<MutableList<*>> {
    val result = ArrayList<List<MutableList<*>>>()
    for (element in this)
        result.add(ArrayList(element))
    return result
}

/**
 * Returns an array of ArrayList containing all of the elements of this collection.
 */
public fun Collection<MutableList<*>>.toMutableList(): List<MutableList<*>> {
    val result = ArrayList<List<MutableList<*>>>()
    for (element in this)
        result.add(ArrayList(element))
    return result
}

/**
 * Returns an array of ArrayList containing all of the elements of this collection.
 */
public fun Collection<MutableList<*>>.toTypedArray(): Array<MutableList<*>>

```
Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Double containing all of the elements of this collection.
 */
public fun Collection<Double>.toDoubleArray(): DoubleArray {
    val result = DoubleArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Float containing all of the elements of this collection.
 */
public fun Collection<Float>.toFloatArray(): FloatArray {
    val result = FloatArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Int containing all of the elements of this collection.
 */
public fun Collection<Int>.toIntArray(): IntArray {
    val result = IntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Long containing all of the elements of this collection.
 */
public fun Collection<Long>.toLongArray(): LongArray {
    val result = LongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}

/**
 * Returns an array of Short containing all of the elements of this collection.
 */
public fun Collection<Short>.toShortArray(): ShortArray {
    val result = ShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
```

Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
    val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))
    return associateWithTo(result, valueSelector)
}

/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection.
 * Where key is the element itself and value is provided by the [valueSelector] function applied to that key.
 * 
 * If any two elements are equal, the last one overwrites the former value in the map.
 */
public inline fun <K, V, M : MutableMap<K, V>, C : MutableCollection<K>>
    Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {
    val keys = toList()
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return destination
}

/**
 * Appends all elements.
 */
public fun <T, C : MutableCollection<T>>
    Iterable<T>.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

/**
 * Returns a [HashSet] of all elements.
 */
public fun <T> Iterable<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>(), mapCapacity(sizeOrDefault(12)))
}

/**
 * Returns a [List] containing all elements.
 */
public fun <T> Iterable<T>.toList(): List<T> {
    if (this is Collection) {
        return when (size) {
            0 -> emptyList()
            1 -> listOf(if (this is List) get(0) else iterator().next())
            else -> this.toMutableList().optimizeReadOnlyList()
        }
    }
    return this.toMutableList().optimizeReadOnlyList()
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding elements.
 */
public inline fun <T, K, M : MutableMap<K, List<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.
 */
public inline fun <T, K, V, M : MutableMap<K, List<V>>>
    Iterable<T>.groupBy(keysAndValues: (T) -> Pair<K, V>): M {
    for (element in this) {
        val key = keySelector(element)
        val value = valueTransform(element)
        val pair = key to value
        val list = destination.getOrPut(pair) { ArrayList<V>() }
        list.add(value)
    }
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding elements.
 */
public inline fun <T, K, M : MutableMap<K, List<T>>>
    Iterable<T>.groupByTo(keysAndValues: (T) -> Pair<K, V>): M {
    for (element in this) {
        val key = keySelector(element)
        val value = valueTransform(element)
        val pair = key to value
        val list = destination.getOrPut(pair) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}

/**
 * Groups elements of the original collection by the key returned by the given [keySelector] function
 * and returns a map where each group key is associated with a list of corresponding elements.
 */
public inline fun <T, K, M : MutableMap<K, List<T>>>
    Iterable<T>.groupByTo(keysAndValues: (T) -> Pair<K, V>): M {
    for (element in this) {
        val key = keySelector(element)
        val value = valueTransform(element)
        val pair = key to value
        val list = destination.getOrPut(pair) { ArrayList<T>() }
        list.add(element)
    }
    return destination
}
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.
* \n * \n * @return The [destination] map
* \n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, V, M : MutableMap<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>() }\n        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.
* \n * @param \n * \n *\n * @return The [destination] map.
* \n * @return The [destination] map.
* \n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, V, M : MutableMap<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>() }\n        list.add(valueTransform(element))
    }
    return destination
}

/**
 * Converts a [Map] source to 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.
* \n * @param \n * \n *\n * @return The [destination] map.
* \n * @return The [destination] map.
* \n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, V, M : MutableMap<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>() }\n        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.
* \n * @param \n * \n *\n * @return The [destination] map.
* \n * @return The [destination] map.
* \n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, V, M : MutableMap<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>() }\n        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.
* \n * @param \n * \n *\n * @return The [destination] map.
* \n * @return The [destination] map.
* \n *\n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues
*/
public inline fun <T, K, V, M : MutableMap<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>() }\n        list.add(valueTransform(element))
    }
    return destination
}
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns a list containing only distinct elements from the given collection.
 * The elements in the resulting list are in the same order as they were in the source collection.
 */
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.
 */
public fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
    val set = this.toMutableSet()
    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.
 */
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.
 */
public infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

/**
 * Returns a mutable set containing all distinct elements from the given collection.
 */
public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
    return when (this) {
        is Collection<T> -> LinkedHashSet(this)
        else -> toCollection(LinkedHashSet<T>())
    }
}

/**
 * Returns a set containing all elements that are contained by both collections.
 * The elements in the resulting list are in the same order as they were in the source collections.
 */
public infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {
    val set = this.toMutableSet()
    set.addAll(other)
    return set
}

/**
 * Returns `true` if all elements match the given [predicate].
 */
public inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if collection has at least one element.
 */
public fun <T> Iterable<T>.any(): Boolean {
    if (this is Collection) return !isEmpty()
    return iterator().hasNext()
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 */
public inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return false
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Returns the number of elements in this collection.
 */
public fun <T> Iterable<T>.count(): Int {
    if (this is Collection) return size
    var count = 0
    for (element in this) checkCountOverflow(++count)
    return count
}

/**
 * Returns the number of elements matching the given [predicate].
 */
public inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {
    if (this is Collection && isEmpty()) return 0
    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.
 */
public inline fun <T, R> Iterable<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 collection.
 */
public inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)
    return accumulator
}
fun <T : Comparable<T>> Iterable<T>.min(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    if (min.isNaN()) return min
    return min
}

/**
 * Returns the smallest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.min(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (e.isNaN()) return e
        if (min > e) min = e
    }
    return min
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.min(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Long>.min(): Long? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Int>.min(): Int? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Char>.min(): Char? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Byte>.min(): Byte? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.max(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Iterable<T>.max(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * 
 * If any of elements is `NaN` returns `NaN`.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.max(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
public fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the smallest element or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Iterable<T>.minBy(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.maxBy(selector: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        val v = selector(e)
        if (maxValue < v) {
            maxElem = e
            maxValue = v
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.maxBy(comparator: Comparator<Double>): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (comparator.compare(max, e) < 0) max = e
    }
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.maxByIndexed(item: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (maxValue < item(e)) {
            maxElem = e
            maxValue = item(e)
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.maxByIndexed(item: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (maxValue < item(e)) {
            maxElem = e
            maxValue = item(e)
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Float>.maxByIndexed(item: (T) -> Float): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (maxValue < item(e)) {
            maxElem = e
            maxValue = item(e)
        }
    } while (iterator.hasNext())
    return max
}

/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.1")
public fun Iterable<Double>.maxByIndexed(item: (T) -> Double): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (maxValue < item(e)) {
            maxElem = e
            maxValue = item(e)
        }
    } while (iterator.hasNext())
    return max
}
null

val min = iterator.next() /n
while (iterator.hasNext()) /n { /n    val e = iterator.next() /n
    if (min > e) min = e /n }

return min
}

/**
 * Returns the first element yielding the smallest value of the given function
 * or `null` if there are no elements.
 */
public inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {
    var iterator = iterator() /n
    if (!iterator.hasNext()) return null
    var minElem = iterator.next() /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    } while (iterator.hasNext()) /n
    return minElem
}

/**
 * Returns the first element having the smallest value according to the provided [comparator]
 * or `null` if there are no elements.
 */
public fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var min = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next() /n        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the collection has no elements.
 */
public fun <T> Iterable<T>.none(): Boolean {
    if (this is Collection) return isEmpty()
    return !iterator().hasNext()
}

/**
 * Returns `true` if no elements match the given [predicate].
 */
public inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {
    if (this is Collection && isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each element and returns the collection itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {
    return apply { for (element in this) action(element) }
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right.
 */
public inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {
    val iterator = this.iterator()
    if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")
    var accumulator: S = iterator.next()
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
    }
    return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from right to left.
 */
public inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {
    val iterator = listIterator(size)
    if (!iterator.hasPrevious())
        throw UnsupportedOperationException("Empty list can't be reduced.")
    var accumulator: S = iterator.previous()
    while (iterator.hasPrevious()) {
        accumulator = operation(iterator.previous(), accumulator)
    }
    return accumulator
}

/**
 * Returns the sum of all values produced by [selector] function applied to each element in the collection.
 */
public inline fun <T> Iterable<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 collection.
 */
public inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {
    var sum: Double = 0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

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```kotlin
(T: Double) -> Double: Double { var sum = 0.0; (element: T) -> Double) {
    if (element == null) {
        throw IllegalArgumentException("null element found in \$this.\")
    }

    return sum += selector(element)
}

/**
 * Returns an original collection containing all the non-null elements, throwing an
 * [IllegalArgumentException] if there are any `null` elements.
 * @param fun A function that is applied to each element.
 * @return The last list in the resulting list may have less 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 collection.
 */

@kotlin.internal.InlineOnly
public fun <T> Iterable<T>.minus(element: T): List<T> {
    val result = ArrayList<T>(collectionSizeOrDefault(10))
    var removed = false
    return this.filterTo(result) { if (!removed
        && it == element) { removed = true; false } else true }
}

/**
 * Returns an original collection containing all the non-null elements, throwing an
 * [IllegalArgumentException] if there are any `null` elements.
 * @param fun A function that is applied to each element.
 * @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.
 */

@kotlin.internal.InlineOnly
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
    return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns an original collection without the first occurrence of the given [element].
 * @param element The element to remove.
 * @return A new list with the element removed.
 */

@kotlin.internal.InlineOnly
public fun <T> Iterable<T>.minus(element: T): List<T> {
    if (element.isEmpty()) return this.toList()
    val other = elements.toHashSet()
    if (other.isEmpty())
        return this.toList()
    return this.filterNot { it in other }
}

/**
 * Splits this collection into several lists each not exceeding the given [size].
 * @param size The size of each list.
 * @return A list of lists.
 */

@kotlin.internal.InlineOnly
public fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
    val trueList = ArrayList<T>(collectionSizeOrDefault(10))
    val falseList = ArrayList<T>(collectionSizeOrDefault(10))
    for (element in this) {
        if (predicate(element))
            trueList += element
        else
            falseList += element
    }
    return Pair(trueList, falseList)
}
```
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)
}

/**
 * Returns a list containing all elements of the original collection and then the given [element].
 */
public operator fun <T> Iterable<T>.plus(element: T): List<T> {
    if (this is Collection) return this.plus(element)
    val result = ArrayList<T>(this) return result
    result.add(element)
    return result
}

/**
 * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.
 */
public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
    val result = ArrayList<T>(this.size + elements.size)
    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> 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] 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 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 less 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
 * @return a list containing all elements of the original collection and then the given [size] sliding along this collection
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = thisSize + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<List<T>>(resultCapacity)
        var index = 0
        while (index in 0 until thisSize) {
            var 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
}
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 less 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.

@sample samples.collections.Sequences.Transformations.averageWindows

@SinceKotlin("1.2")
    checkWindowSizeStep(size, step)
    if (this is RandomAccess && this is List) {
        val thisSize = this.size
        val resultCapacity = this.size / step + if (thisSize % step == 0) 0 else 1
        val result = ArrayList<R>(resultCapacity)
        val window = MovingSubList(this)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = size.coerceAtMost(thisSize - index)
            if (!partialWindows && windowSize < size) break
            window.move(index, index + windowSize)
            result.add(transform(window))
            index += step
        }
        return result
    }
    val result = ArrayList<R>()
    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {
        result.add(transform(it))
    }
    return result
}

/**
 * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
@SinceKotlin("1.2")
public infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` collection and the [other] array with the same index
 * using the provided [transform] function applied to each pair of elements.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.2")
public inline fun <T, R, V> Iterable<T>.zip(other: Array<R>, transform: (a: T, b: R) -> V): List<V> {
    val arraySize = other.size
    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))
    var i = 0
    for (element in this) {
        if (i >= arraySize) break
        list.add(transform(element, other[i++]))
    }
    return list
}

/**
 * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.
 * The returned list has length of the shortest collection.
 * @sample samples.collections.Iterables.Operations.zipIterable
 */
@SinceKotlin("1.2")
public infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of values built from the elements of `this` collection and the [other] collection
 * using the provided [transform] function applied to each pair of elements.
 * @sample samples.collections.Iterables.Operations.zipIterableWithTransform
 */
@SinceKotlin("1.2")
public inline fun <T, R, V> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> V): List<R> {
    val iterator = iterator()
    if (!iterator.hasNext()) return emptyList()
    val result = mutableListOf<R>()
    var current = iterator.next()
    while (iterator.hasNext()) {
        val next = iterator.next()
        result.add(transform(current, next))
        current = next
    }
    return result
}

/**
 * Appends the string from all the elements separated using [separator] and
 * @sample samples.collections.Collections.Transformations.zipWithNext
 */
@SinceKotlin("1.2")
public fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {
    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 elements in this collection.
 * The returned list is empty if this collection contains less than two elements.
 * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas
 */
@SinceKotlin("1.2")
public fun <T, R> Iterable<T>.zipWithNextToFindDeltas(): List<Pair<T, T>> {
    val iterator = iterator()
    var current = iterator.next()
    var prev = null
    while (iterator.hasNext()) {
        val next = iterator.next()
        val result = mutableListOf<R>(next)
    }
}

/**
 * A class for performing sliding window computation in stream processing. This class is used to
 * manipulate streams based on windowed data.
 * @param windowsize The size of the window.
 * @param step The step size of the window.
 * @param partialWindows Controls whether or not to keep partial windows in the end if any.
 * @param transform The function to apply to each window.
 * @sample samples.collections.Sequences.Transformations.createWindows
 */
@SinceKotlin("1.2")
    checkWindowSizeStep(windowsize, 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<R>(resultCapacity)
        val window = MovingSubList(this)
        var index = 0
        while (index in 0 until thisSize) {
            val windowSize = windowsize.coerceAtMost(thisSize - index)
            if (!partialWindows && windowSize < windowsize) break
            window.move(index, index + windowSize)
            result.add(transform(window))
            index += step
        }
        return result
    }
    val result = ArrayList<R>()
    createWindowsIterator(iterator(), windowsize, step, partialWindows, reuseBuffer = true).forEach {
        result.add(transform(it))
    }
    return result
}
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] elements will be appended, followed by the [truncated] string (which defaults to "..."),\n
\n* @sample samples.collections.Collections.Transformations.joinTo
\nIterate<T>.joinTo(buffer: A, separator: CharSequence = \"\", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"\...\"), transform: (T) -> CharSequence? = null): A {\n\nbuffer.append(prefix)\nvar count = 0\nfor (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} \nif (limit >= 0 && count > limit) buffer.append(truncated)\nbuffer.append(postfix)\nreturn buffer\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] elements will be appended, followed by the [truncated] string (which defaults to "..."),\n
\n* @sample samples.collections.Collections.Transformations.joinToString
\nIterate<T>.joinToString(separator: CharSequence = \"\", prefix: CharSequence = "", postfix: CharSequence = "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n\nreturn joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\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
\nIterate<T>.asIterable(): Iterable<T> {\n\nreturn this\n\n* Returns this collection as an [Iterable].\n\n* @kotlin.internal.InlineOnly\n\nIterate<T>.asSequence(): Sequence<T> {\n\nreturn Sequence { this.iterator() }\n\n* Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.*\n\n* @kotlin.jvm.JvmName("averageOfByte")\n\nIterate<Byte>.average(): Double {\n\nvar sum: Double = 0.0\nvar count: Int = 0\nfor (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n} \nreturn if (count == 0) Double.NaN else sum / count\n\n* Returns an average value of elements in the collection.\n\n* @kotlin.jvm.JvmName("averageOfShort")\n\nIterate<Short>.average(): Double {\n\nvar sum: Int = 0\nvar count: Int = 0\nfor (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n} \nreturn if (count == 0) Double.NaN else sum / count\n\n* Returns an average value of elements in the collection.\n\n* @kotlin.jvm.JvmName("averageOfInt")\n\nIterate<Int>.average(): Double {\n\nvar sum: Int = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("averageOfLong")\n\nIterate<Long>.average(): Double {\n\nvar sum: Long = 0\nvar count: Int = 0\nfor (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n} \nreturn if (count == 0) Double.NaN else sum / count\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("averageOfFloat")\n\nIterate<Float>.average(): Double {\n\nvar sum: Float = 0\nvar count: Int = 0\nfor (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n} \nreturn if (count == 0) Double.NaN else sum / count\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("averageOfDouble")\n\nIterate<Double>.average(): Double {\n\nvar sum: Double = 0.0\nvar count: Int = 0\nfor (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n} \nreturn if (count == 0) Double.NaN else sum / count\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfByte")\n\nIterate<Byte>.sum(): Int {\n\nvar sum: Int = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfShort")\n\nIterate<Short>.sum(): Int {\n\nvar sum: Int = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfInt")\n\nIterate<Int>.sum(): Int {\n\nvar sum: Int = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfLong")\n\nIterate<Long>.sum(): Int {\n\nvar sum: Long = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfFloat")\n\nIterate<Float>.sum(): Int {\n\nvar sum: Float = 0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n\n* @kotlin.jvm.JvmName("sumOfDouble")\n\nIterate<Double>.sum(): Int {\n\nvar sum: Double = 0.0\nfor (element in this) {\n    sum += element\n} \nreturn sum\n\n* Returns the sum of all elements in the collection.\n
the collection. 
 */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
    var sum: Long = 0
    for (element in this) {
        sum += element
    }
    return sum
}/*
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package kotlin.collections

import kotlin.comparisons.naturalOrder
import kotlin.random.Random

/** Returns the array if it's not 'null', or an empty array otherwise. */
@kotlin.internal.InlineOnly
public actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()

@kotlin.internal.InlineOnly
public actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)

@JsName("copyToArray")
@PublishedApi
internal fun <T> copyToArray(collection: Collection<T>): Array<T> {
    return if (collection.asDynamic().toArray !== undefined)
        collection.asDynamic().toArray().unsafeCast<Array<T>>()
    else
        copyToArrayImpl(collection).unsafeCast<Array<T>>()
}

@JsName("copyToArrayImpl")
internal actual fun <T> copyToArrayImpl(collection: Collection<*>): Array<Any?> {
    val array = emptyArray<Any?>()
    val iterator = collection.iterator()
    while (iterator.hasNext())
        array.asDynamic().push(iterator.next())
    return array
}

@JsName("copyToExistingArrayImpl")
internal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {
    if (array.size < collection.size)
        return copyToArrayImpl(collection).unsafeCast<Array<T>>()

    val iterator = collection.iterator()
    var index = 0
    while (iterator.hasNext()) {
        array[index++] = iterator.next().unsafeCast<T>()
    }
    if (index < array.size)
        array[array.size] = null.unsafeCast<T>()
    return array
}

/**
 * Returns an immutable list containing only the specified object [element].
 */
public fun <T> listOf(element: T): List<T> = arrayListOf(element)

/**
 * Returns an immutable set containing only the specified object [element].
 */
public fun <T> setOf(element: T): Set<T> = hashSetOf(element)

/**
 * Returns an immutable map, mapping only the specified key to the specified value. 
*/
public fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)

/**
 * Fills the list with the provided [value]. 
 * Each element in the list gets replaced with the [value].
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.fill(value: T): Unit {
    for (index in 0..lastIndex) {
        this[index] = value
    }
}

/**
 * Randomly shuffles elements in this list.
 */
@SinceKotlin("1.2")
public actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)

/**
 * Returns a new list with the elements of this list randomly shuffled.
 */
@SinceKotlin("1.2")
public actual fun <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. 
 */
public actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {
    sortWith(Comparables.comparator())
}

private fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {
    if (list.size <= 1) return
    val arrayCopy = arrayCopy
    arrayCopy.sortWith(comparator)
}

private fun <T> arrayCopy() = arrayCopy

private fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int) {
    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)
    val rangeSize = endIndex - startIndex
    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
if (js("ArrayBuffer").isView(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
@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
}
Comparable<T>> maxOf(a: T, b: T, c: T): T

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Short, b: Short, c: Short): Short

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Int, b: Int, c: Int): Int

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Long, b: Long, c: Long): Long

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Float, b: Float, c: Float): Float

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun maxOf(a: Double, b: Double, c: Double): Double

/**
 * Returns the greater of two values according to the order specified by the given [comparator].
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {
    return maxOf(a, maxOf(b, comparator), comparator)
}

/**
 * Returns the greater of two values
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {
    return if (comparator.compare(a, b) >= 0) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
public expect fun <T : Comparable<T>> minOf(a: T, b: T): T

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Byte, b: Byte): Byte

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Short, b: Short): Short

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Int, b: Int): Int

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Long, b: Long): Long

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Float, b: Float): Float

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public expect inline fun minOf(a: Double, b: Double): Double

/**
 * Returns the smaller of three values.
 */
@SinceKotlin("1.1")
public expect fun <T> minOf(a: T, b: T, c: T): T {
    return minOf(a, minOf(b, c, comparator), comparator)
}

/**
 * Returns the smaller of three values
 * If values are equal, returns the first one.
 */
@SinceKotlin("1.1")
public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {
    return if (comparator.compare(a, b) <= 0) a else b
}

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 */
**MapsKt**

```kotlin
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 [List] containing all key-value pairs.
 */
public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {
    if (size == 0)
        return emptyList()
    val iterator = entries.iterator()
    if (!iterator.hasNext())
        return emptyList()
    val first = iterator.next()
    if (!iterator.hasNext())
        return listOf(first.toPair())
    val result = ArrayList<Pair<K, V>>(size)
    result.add(first.toPair())
    do {
        result.add(iterator.next().toPair())
    } while (iterator.hasNext())
    return result
}

/**
 * Returns a single list of all elements yielded from results of [transform] function being invoked
 * on each entry of original map.
 */
public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given
 * [destination].
 */
public inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {
    for (element in this) {
        val list = transform(element)
        destination.addAll(list)
    }
    return destination
}

/**
 * Returns a list containing the results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {
    return mapTo(ArrayList<R>(size), transform)
}

/**
 * Returns a list containing only the non-null results of applying the given [transform] function to each entry in the original map.
 */
public inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each entry in the original map
 * and appends the results to the given [destination].
 */
public inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Returns the first entry yielding the largest value of the given [comparator] or `null` if there are no entries.
 */
    return maxBy(comparator)
}
```

---

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    return entries.maxWith(comparator) ?: @sample samples.collections.Collections.Aggregates.minByEntries

/**
 * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.
 */
    return entries.minWith(comparator) ?: @sample samples.collections.Collections.Aggregates.minByEntries

/**
 * Returns the first entry having the smallest value according to
 * the provided [comparator] or `null` if there are no entries.
 */
    return entries.minWith(comparator) ?: @sample samples.collections.Collections.Aggregates.minByEntries

/**
 * Returns `true` if the map has no entries.
 */
public fun <K, V> Map<out K, V>.none(): Boolean {
    return isEmpty()

/**
 * Returns `true` if no entries match the given [predicate].
 */
public inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {
    if (isEmpty()) return true
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Performs the given [action] on each entry and
 * returns the map itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {
    return apply { for (element in this) action(element) }
}

/**
 * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a [Sequence] instance that wraps the original map returning its entries
 * when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}

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 * license/LICENSE.txt file.
 */

package kotlin.ranges

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public inline operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> =
    this.toDouble().rangeTo(that.toDouble()).unsafeCast<ClosedFloatingPointRange<Float>>()

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("SequencesKt")

package kotlin.sequences

//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
//

import kotlin.random.*

/**
 * Returns `true` if [element] is found in the sequence.
 * 
 * The operation is _terminal_.
 */
public operator fun <T> Sequence<T>.contains(element: T): 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 sequence.
 * 
 * The operation is _terminal_.
 * 
 * @sample samples.collections.Collections.Elements.elementAt
 */
public fun <T> Sequence<T>.elementAt(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
index $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 sequence.
 */
public fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
    if (index < 0)
        return defaultValue(index)
    var count = 0
    while (iterator.hasNext()) {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return defaultValue(index)
}

/**
 * Returns the first element matching the given [predicate], or `null`
 */
public fun <T> Sequence<T>.elementAtOrElse(index: Int): T {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("Sequence doesn't contain element at
index $index.") }
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.
 */
public fun <T> Sequence<T>.elementAtOrElse(index: Int): T? {
    if (index < 0)
        return null
    var count = 0
    while (iterator.hasNext()) {
        val element = iterator.next()
        if (index == count++)
            return element
    }
    return null
}

/**
 * Performs the given [action] on each entry and
 * returns the map itself afterwards.
 */
@SinceKotlin("1.1")
public inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {
    return apply { for (element in this) action(element) }
}

/**
 * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.
 */
@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {
    return entries
}

/**
 * Creates a [Sequence] instance that wraps the original map returning its entries
 * when being iterated.
 */
public fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {
    return entries.asSequence()
}
if no such element was found. The operation is _terminal_.

```kotlin
@kotlin.internal.InlineOnly
public inline
```

```kotlin
fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {
    return firstOrNull(predicate)
}
```

```kotlin
/**
 * Returns the last element matching the given [predicate], or 'null' if no such element was found.
 * The operation is _terminal_.
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {
    return lastOrNull(predicate)
}
```

```kotlin
/**
 * Returns first element.
 * @throws [NoSuchElementException] if the sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.first(): T {
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Sequence is empty.")
    return iterator.next()
}
```

```kotlin
/**
 * Returns the first element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Sequence contains no element matching the predicate.")
}
```

```kotlin
/**
 * Returns first index of [element], or -1 if the sequence does not contain element.
 * The operation is _terminal_.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item)
            return index
        index++
    }
    return -1
}
```

```kotlin
/**
 * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.
 * The operation is _terminal_.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item))
            return index
        index++
    }
    return -1
}
```

```kotlin
/**
 * Returns the last element.
 * @throws [NoSuchElementException] if the sequence is empty.
 * The operation is _terminal_.
 */
public fun <T> Sequence<T>.last(): T {
    val iterator = iterator()
    if (!iterator.hasNext())
        throw NoSuchElementException("Sequence is empty.")
    var last = iterator.next()
    while (iterator.hasNext())
        last = iterator.next()
    return last
}
```

```kotlin
/**
 * Returns the last element matching the given [predicate].
 * @throws [NoSuchElementException] if no such element is found.
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            last = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return last as T
}
```

```kotlin
/**
 * Returns last index of [element], or -1 if the sequence does not contain such element.
 * The operation is _terminal_.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item)
            lastIndex = index
        index++
    }
    return lastIndex
}
```

```kotlin
/**
 * Returns last index of [element], or -1 if the sequence does not contain such element.
 * The operation is _terminal_.
 */
public fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (predicate(item))
            lastIndex = index
        index++
    }
    return lastIndex
}
```

```kotlin
/**
 * Returns the single element,
 * if no such element was found.
 * The operation is _terminal_.
 */
@kotlin.internal.InlineOnly
public inline
```
or throws an exception if the sequence is empty or has more than one element.
The operation is _terminal_.*

```kotlin
@public
fun <T> Sequence<T>.single(): T {
    val iterator = iterator()
    if (!iterator.hasNext()) throw NoSuchElementException("Sequence is empty.
    
    * The operation is _terminal_.*

```
matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */
public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n    return FilteringSequence(this, false, predicate)\n}

/**
 * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n */
public fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n    return filterNot { it == null } as Sequence<T?>\n}

/**
 * Returns a sequence containing first \[n\] elements.\n *\n * @throws IllegalArgumentException if \[n\] is negative.\n *\n * @sample samples.collections.Collections.Transformations.take\n */
public 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}

/**
 * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n *\n * The operation is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * @sample samples.collections.Collections.Transformations.sorted\n */
public fun <T : 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}

/**
 * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n *\n * The operation is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * @sample samples.collections.Collections.Transformations.sortedDescending\n */
public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n    return object : Sequence<T> {\n        override fun iterator(): Iterator<T> {\n            val sortedList = this@sorted.toMutableList()\n            sortedList.sort(\n                compareByDescending { it }\n            )\n            return sortedList.iterator()\n        }\n    }\n}
If any of two pairs would have the same key the last one gets added to the map. The returned map preserves
the entry iteration order of the original sequence. The operation is _terminal_ *\n* The operation is _terminal_ */unpublic 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
/**
 * Returns a [Map] containing the elements from the given sequence indexed by the key returned from [keySelector] function applied to each element. 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 sequence. The operation is _terminal_ */
public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    return
    associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n
/**
 * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence. 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 sequence. The operation is _terminal_ */
public 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
/**
 * Populates and returns the [destination] mutable map with key-value pairs. 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 sequence. The operation is _terminal_ */
public inline fun <T, K, M : MutableMap<in K, in T>> 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
/**
 * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence, where key is the element itself and value is provided by the [valueSelector] function applied to that key. If any two elements are equal, the last one overwrites the former value in the map. The operation is _terminal_ */
@SinceKotlin("1.3")
public inline fun <K, V, M, C : MutableCollection<in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): C {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n
/**
 * Appends all elements to the given [destination] collection. The operation is _terminal_ */
public 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
/**
 * Returns a [HashSet] of all elements. The operation is _terminal_ */
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n    return toCollection(HashSet<T>())\n}\n
/**
 * Returns a [List] containing all elements. The operation is _terminal_ */
public fun <T> Sequence<T>.toList(): List<T> {\n    return toCollection(ArrayList<T>())\n}\n
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_terminal_: 

```kotlin
*public fun <T> Sequence<T>.toList(): List<T> { return this.toMutableList().optimizeReadOnlyList() }

*public fun <T> Sequence<T>.toMutableList(): MutableList<T> { return toCollection(ArrayList<T>()) }

*public fun <T> Sequence<T>.toSet(): Set<T> { return toCollection(LinkedHashSet<T>(), keySelector = { it.iterator() }) }

*public fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> { return object : Grouping<T, K> { override fun sourceIterator(): Sequence<T> { return this@groupingBy.iterator() } override fun keyOf(element: T): K { return keySelector(element) } } }
```

**Terminal** 

The operation is **terminal**.*public fun <T> Sequence<T>.toSet(): Set<T> { return toCollection(LinkedHashSet<T>(), keySelector = { it.iterator() }) }

**Intermediate and Stateless**

The operation is **intermediate** and **stateless**.*public fun <T> Sequence<T>.toList(): List<T> { return this.toMutableList().optimizeReadOnlyList() }

**Intermediate**

The operation is **intermediate**.*public fun <T> Sequence<T>.toSet(): Set<T> { return toCollection(LinkedHashSet<T>(), keySelector = { it.iterator() }) }

**Stateless**

The operation is **stateless**.

---

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original sequence

* The operation is _intermediate_ and _stateless_.*

@sample

collections.Collections.Transformations.map

*/public fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> { return TransformingSequence(this, transform) }

// Returns a sequence containing the results of applying the given [transform] function to each element and its index in the original sequence.*

@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.*

The operation is _intermediate_ and _stateless_.*

Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.*

* The operation is _intermediate_ and _stateless_.*

@sample

collections.Collections.Transformations.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> { return TransformingIndexedSequence(this, transform) }

// Returns a sequence containing the results of applying the given [transform] function to each element and its index in the original sequence.*

* The operation is _intermediate_ and _stateless_.*

@sample

collections.Collections.Transformations.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> { return TransformingIndexedSequence(this, transform).filterNotNull() }

// Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.*

* The operation is _terminal_.*

@sample

collections.Collections.Transformations.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C { forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } } return destination }

// Returns a sequence containing only the non-null results of applying the given [transform] function to each element and its index in the original sequence.*

* The operation is _intermediate_ and _stateless_.*

@sample

collections.Collections.Transformations.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 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_.*

@sample

collections.Collections.Transformations.withIndex():

Sequence<IndexedValue<T>> { return IndexingSequence(this) }

// Returns a sequence containing only distinct elements from the given 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

collections.Collections.Transformations.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.*

* 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

collections.Collections.Transformations.distinctBy(selector: (T) -> K): Sequence<T> { return DistinctSequence(this, selector) }

// Returns a mutable set containing all distinct elements from the given sequence.*

* The returned set preserves the element iteration order of the original sequence.*

The operation is _terminal_.*

@sample

collections.Collections.Transformations.toMutableSet():

MutableSet<T> { val set = LinkedHashSet<T>() for (item in this) }
set.add(item)  

/**
 * Returns `true` if all elements match the given [predicate].
 * The operation is _terminal_.
 */
public inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {
    var count = 0
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if at least one element matches the given [predicate].
 * The operation is _terminal_.
 */
public 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 matching the given [predicate].
 * 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 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.
 * 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.
 * The operation is _terminal_.
 */
@SinceKotlin("1.1")
public fun Sequence<Double>.max(): Double? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (max.isNaN()) return max
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * If any of elements is `NaN` returns `NaN`.
 * The operation is _terminal_.
 */
@SinceKotlin("1.1")
public fun Sequence<Float>.max(): Float? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (max.isNaN()) return max
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 * The operation is _terminal_.
 */
public fun <T : Comparable<T>> Sequence<T>.max(): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    if (max.isNaN()) return max
    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 or `null` if there
 * are no elements.
 * The operation is _terminal_.
 */
public inline fun <T : Comparable<T>, R> Sequence<T>.maxBy(selector: (T) -> R): T? {
    val iterator = iterator()
    if (!iterator.hasNext()) return null
    var max = iterator.next()
    while (iterator.hasNext()) {
        val e = iterator.next()
        if (max < e) max = e
    }
    return max
}
//
//    accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
//  } return accumulator
//
//  The operation is _terminal_ and _public_ inline 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_ and _public_ inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {
//  var sum: Double = 0.0
//  for (element in this) {
//    sum += selector(element)
//  }
//  return sum
//}

/**
 * Returns an original collection containing all the non-null elements, throwing an [IllegalStateException] if there are any `null` elements.
 *
 * The operation is _intermediate_ and _stateless_ and _public_ fun <T>: Any> Sequence<T?>.requireNoNulls(): Sequence<T> {
//  return map { it ?: throw IllegalStateException("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 less elements than the given [size].
 *
 * The operation is _intermediate_ and _stateful_ and _public_ 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 less elements than the given [size].
 *
 * The operation is _intermediate_ and _stateful_ and _public_ operator fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {
//  return windowed(size, size, partialWindows = true, transform = transform)
}

/**
 * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].
 *
 * The operation is _intermediate_ and _stateless_ and _public_ operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {
//  return object: Sequence<T> {
//    override fun iterator(): Iterator<T> {
//      var removed = false
//      return this@minus.filter { if (!removed && it == element) {
//        removed = true; false } else true }.iterator()
//    }
//  }
//}

/**
 * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.
 *
 * Note that the source sequence and the array being subtracted 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 elements array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a
 * correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 *
 * The operation is _intermediate_ and _stateful_ and _public_ operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {
//  return object: Sequence<T> {
//    override fun iterator(): Iterator<T> {
//      val other = elements.toHashSet()
//      return this@minus.filterNot { it in other }.iterator()
//    }
//  }
//}

/**
 * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.
 *
 * Note that the source sequence and the collection being subtracted 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 elements collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have
 * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.
 *
 * The operation is _intermediate_ and _stateful_ and _public_ operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {
//  return object: Sequence<T> {
//    override fun iterator(): Iterator<T> {
//      val other = elements.convertToSetForSetOperation()
//      return this@minus.filterNot { it in other }.iterator()
//    }
//  }
//}

```
containing all elements of original sequence except the elements contained in the given [elements] sequence.

* Note that the source sequence and the sequence being subtracted 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_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.

* The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

* /\public operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {
return object: Sequence<T> {
        override fun iterator(): Iterator<T> {
            val other = elements.toHashSet()
            if (other.isEmpty())
                return this@minus.iterator()
            else
return this@minus.filterNot { it in other }.iterator()
        }
    }
}

* Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].
* The operation is _intermediate_ and _stateless_.

* The operation is _intermediate_ and _stateful_.

* The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are
* required to have a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.

* /\public inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {
return minus(element)
}

* Returns a sequence containing all elements of the original sequence and then the given [element].
* The operation is _intermediate_ and _stateless_.

* /\public operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {
return sequenceOf(this, sequenceOf(element)).flatten()
}

* Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.
* Note that the source sequence and the array 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_.

return windowed(size, step, partialWindows, reuseBuffer =
false)\n\n/**
 * Returns a sequence of results of applying the given [transform] function to each list representing a view over the window of the given [size] sliding along this sequence with the given [step]. Both [size] and [step] must be positive and can be greater than the number of elements in this sequence. 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 less elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this sequence. 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 less elements than the given [size]. The operation is _intermediate_ and _stateless_.

@SinceKotlin("1.2")
public fun <T, 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)\n}\n\n/**
 * 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.averageWindows\npublic fun <T, R> Sequence<T>, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {
    return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**
 * 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\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {
    return MergingSequence(this, other, transform)\n}\n\n/**
 * Returns a sequence containing the results of applying the given [transform] function to each pair of two adjacent elements in this sequence. The returned sequence is empty if this sequence contains less than two elements. The operation is _intermediate_ and _stateless_.

@SinceKotlin("1.2")
public fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {
    return sequence result@{
        val iterator = iterator()
        if (!iterator.hasNext()) return@result
        var current = iterator.next()
        while (iterator.hasNext()) {
            val next = iterator.next()
            yield(transform(current, next))
            current = next
        }
    }\n}\n\n/**
 * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied. If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit] elements will be appended, followed by the [truncated] string (which defaults to "..."). The operation is _terminal_.

@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 {
    buffer.append(prefix)\n    var count = 0\n    for (element in this) {
        if (++count > 1) buffer.append(separator)\n        if (limit < 0 || count <= limit) {
            buffer.appendElement(element, transform)\n        } else break\n    }\n}\n\nOpen Source Used In UCM Cloud Analyzer Service 1.0 1947
import Samples.Collections.Collections.Transformations.joinToString

open fun <T> Sequence<T>.joinToString(separator: CharSequence = ", ", prefix: CharSequence = ", ", postfix: CharSequence = ", ", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/**
 * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.
 * @param <T> The type parameter
 * @return The created iterable
 */
public fun <T> Sequence<T>.asIterable(): Iterable<T> {
    return Iterable { this.iterator() }
}

/**
 * Returns this sequence as a [Sequence].
 */
@kotlin.internal.InlineOnly
public inline fun <T> Sequence<T>.asSequence(): Sequence<T> {
    return this
}

/**
 * Returns an average value of elements in the sequence.
 */
@kotlin.jvm.JvmName("averageOfByte")
public fun Sequence<Byte>.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.
 */
@kotlin.jvm.JvmName("averageOfShort")
public fun Sequence<Short>.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.
 */
@kotlin.jvm.JvmName("averageOfInt")
public fun Sequence<Int>.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.
 */
@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.
 */
@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.
 */
@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.
 */
@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.
 */
@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.
 */
@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.
 */
@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.
 */
@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.
 */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Sequence<Double>.sum(): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += element
    }
    return sum
}
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("\SetsKt")

package kotlin.collections

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.
 * @return a set containing all elements of the original set except the given [element]
 */
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.
 * @return a set containing all elements of the original set except the elements contained in the given [elements]
 */
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.
 * @return a set containing all elements of the original set except the elements contained in the given [elements]
 */
public operator fun <T> Set<T>.minus(elements: Iterable<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].
 * The returned set preserves the element iteration order of the original set.
 * @return a set containing all elements of the original set except the given [element]
 */
@kotlin.internal.InlineOnly
public inline fun <T> 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.
 * The returned set preserves the element iteration order of the original set.
 * @return a set containing all elements of the original set and then the given [element]
 */
public operator fun <T> 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.
 * The returned set preserves the element iteration order of the original set.
 * @return a set containing all elements of the original set and the given [elements]
 */
public operator fun <T> Set<T>.plus(elements: Array<out 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 then the given [element] if it isn't already in this set.
 * The returned set preserves the element iteration order of the original set.
 * @return a set containing all elements of the original set and then the given [element]
 */
@kotlin.internal.InlineOnly
public inline fun <T> Set<T>.plusElement(element: T): Set<T> {
    return plus(element)
}

/*
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 */
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("StringsKt")

package kotlin.text

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt

import kotlin.random.*

/**
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 */
public 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.
 */
public fun CharSequence.getOrElse(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.
 */
public fun CharSequence.getOrNull(index: Int): Char?

/**
 * Returns index of the first character matching the given [predicate], or `-1` if no such character was found.
 */
public inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int

/**
 * Returns index of the last character matching the given [predicate], or `-1` if no such character was found.
 */
public inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int

/**
 * Returns the first character.
 * @throws [NoSuchElementException] if the char sequence is empty.
 */
public fun CharSequence.first(): Char

/**
 * Returns the first character matching the given [predicate].
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.first(predicate: (Char) -> Boolean): Char

/**
 * Returns the first character, or `null` if the char sequence does not contain such character.
 */
public fun CharSequence.getOrNull(index: Int): Char?

/**
 * Returns index of the first character matching the given [predicate], or `-1` if the char sequence does not contain such character.
 */
public inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int

/**
 * Returns the last character.
 * @throws [NoSuchElementException] if the char sequence is empty.
 */
public fun CharSequence.last(): Char

/**
 * Returns the last character matching the given [predicate].
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.last(predicate: (Char) -> Boolean): Char

/**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun CharSequence.getOrNull(index: Int): Char

/**
 * Returns index of the last character matching the given [predicate], or `-1` if the char sequence does not contain such character.
 */
public inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int

 /**
 * Returns the last character matching the given [predicate], or `null` if the char sequence is empty.
 */
public fun CharSequence.last(): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.last(predicate: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun CharSequence.getOrNull(index: Int): Char

 /**
 * Returns index of the last character matching the given [predicate], or `-1` if the char sequence does not contain such character.
 */
public inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int

 /**
 * Returns the last character matching the given [predicate], or `null` if the char sequence is empty.
 */
public fun CharSequence.last(): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun CharSequence.last(predicate: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
 */
public fun(CharSequence last: (Char) -> Boolean): Char

 /*
 * @throws [NoSuchElementException] if no such character is found.
 */
public inline fun(CharSequence last: (Char) -> Boolean): Char

 /**
 * Returns the last character, or `null` if the char sequence is empty.
char sequence is empty.
 */
 public fun CharSequence.lastOrNull(): Char? { return if (isEmpty()) null else this[length - 1]
 }

 /**
 * Returns the last character matching the given [predicate], or `null` if no such character was found.
 */
 public fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? { for (index in this.indices.reversed())
 if (predicate(element)) return element
 return null
 }

 /**
 * Returns a random character from this char sequence.
 */
 fun * @throws NoSuchElementException

 @SinceKotlin("1.3")
 @kotlin.internal.InlineOnly
 public inline fun CharSequence.random(): Char {
 return random(Random)
 }

 /**
 * Returns a random character from this char sequence using the specified source of randomness.
 */
 public fun CharSequence.random(random: Random): Char {
 if (isEmpty())
 throw NoSuchElementException("Char sequence is empty.")
 return get(random.nextInt(length))
 }

 /**
 * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.
 */
 fun single(): Char {
 return when (length) {
 0 -> throw
 NoSuchElementException("Char sequence is empty.")
 1 -> this[0]
 else -> throw
 IllegalArgumentExce...
characters except first characters that satisfy the given [predicate].

`public inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {
    for (index in this.indices)
        if (!predicate(this[index]))
            return subSequence(index, length)
    return ""
}

/**
 * Returns a string containing all characters except first characters that satisfy the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    for (index in this.indices)
        if (!predicate(this[index]))
            return substring(index)
    return ""
}

/**
 * Returns a char sequence containing only those characters from the original string that match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {
    return filterIndexedTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters from the original string that match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {
    return filterIndexedTo(StringBuilder(), predicate).toString()
}

/**
 * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {
    return filterNotTo(StringBuilder(), predicate)
}

/**
 * Returns a string containing only those characters from the original string that do not match the given [predicate].
 */
public inline fun String.filterNot(predicate: (Char) -> Boolean): String {
    return filterNotTo(StringBuilder(), predicate).toString()
}

/**
 * Appends all characters matching the given [predicate] to the given [destination].
 */
public inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element))
            destination.append(element)
    }
    return destination
}

/**
 * Returns a char sequence containing only those characters from the original char sequence at specified range of [indices].
 */
public fun CharSequence.slice(indices: IntRange): CharSequence {
    if (indices.isEmpty()) return ""
    return subSequence(indices)
}

/**
 * Returns a string containing only those characters from the original string at specified range of [indices].
 */
@kotlin.internal.InlineOnly
public inline fun String.slice(indices: IntRange): String {
    val result = StringBuilder(size)
    for (i in indices) {
        result.append(this[i])
    }
    return result.toString()
}

/**
 * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence.
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
@throws IllegalArgumentException if [n] is negative.

`public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return subSequence(index, length)
}

/**
 * Returns a string containing only those characters from the original string that match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return substring(index)
}

/**
 * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    for (index in 0 until length) {
        val element = get(index)
        if (predicate(index, element))
            destination.append(element)
    }
    return destination
}

/**
 * Returns a string containing only those characters from the original string at specified range of [indices].
 */
@throws IllegalArgumentException if [n] is negative.

`public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return subSequence(index, length)
}

/**
 * Returns a string containing only those characters from the original string that match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return substring(index)
}

/**
 * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].
 * @param [predicate] function that takes the index of a character and the character itself
 * and returns the result of predicate evaluation on the character.
 */
public inline fun CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {
    for (index in 0 until length) {
        val element = get(index)
        if (predicate(index, element))
            destination.append(element)
    }
    return destination
}

/**
 * Returns a string containing only those characters from the original string at specified range of [indices].
 */
@throws IllegalArgumentException if [n] is negative.

`public inline fun String.dropWhile(predicate: (Char) -> Boolean): String {
    return subSequence(index, length)
}
CharSequence.take(n: Int): CharSequence \{ if \( n \geq 0 \) \{ "Requested character count $n is less than zero." \} \}
return subSequence(0, n.coerceAtMost(length))\}
return  /n/*\n* Returns a string containing the first \([n]\) characters from this string, or the entire string if this string is shorter.\n* @throws IllegalArgument Exception if \([n]\) is negative.\n* @sample samples.text.Strings.take\n*
*public fun String.take(n: Int): String \{ if \( n \geq 0 \) \{ "Requested character count $n is less than zero." \} \}
return substring(0, n.coerceAtMost(length))\}
val length = length\}
return subSequence(length - n.coerceAtMost(length), length)\}
val *\* Returns a string containing the last \([n]\) characters from this string, or the entire string if this string is shorter.\n* @throws IllegalArgument Exception if \([n]\) is negative.\n* @sample samples.text.Strings.takeLast\n*
*public fun String.takeLast(n: Int): String \{ if \( n \geq 0 \) \{ "Requested character count $n is less than zero." \} \}
val length = length\}
return substring(length - n.coerceAtMost(length), length)\}
val *\* Returns a subsequence of this string containing the last \([n]\) characters from this string, or the entire string if this string is shorter.\n* @throws IllegalArgument Exception if \([n]\) is negative.\n* @sample samples.text.Strings.takeLast\n*
*public fun CharSequence.takeLast(n: Int): CharSequence \{ if \( n \geq 0 \) \{ "Requested character count $n is less than zero." \} \}
val length = length\}
return subSequence(length - n.coerceAtMost(length), length)\}
val *\* Returns a subsequence of this char sequence containing the last \([n]\) characters that satisfy the given [predicate].\n* @sample samples.text.Strings.takeLast\n*
*public inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence \{ for (index in lastIndex downTo 0) \{ if (!predicate(this[index])) \{ return subSequence(index + 1, length)\}
\} \}
return subSequence(0, length)\}
val *\* Returns a string containing last characters that satisfy the given [predicate].\n* @sample samples.text.Strings.takeLastWhile\n*
*public inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String \{ for (index in lastIndex downTo 0) \{ if (!predicate(this[index])) \{ return substring(index + 1)\}
\} \}
return this\}
val *\* Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n* @sample samples.text.Strings.takeLastWhile\n*
*public inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String \{ for (index in 0 until length) \{ if (!predicate(get(index))) \{ return subSequence(0, index)\}
\} \}
return subSequence(0, length)\}
val *\* Returns a string containing the first characters that satisfy the given [predicate].\n* @sample samples.text.Strings.takeLastWhile\n*
*public inline fun StringBuilder.reverse(): String \{ return this\}
val *\* Returns a string with characters in reversed order.\n*\n@kotlin.internal.InlineOnly\n*public inline fun StringBuilder.reverse(): String \{ return this\}
val *\* Returns a string with characters in reversed order.\n*\n@kotlin.internal.InlineOnly\n*public inline fun StringBuilder.reverse(): String \{ return this\}
val *\* Returns a string with characters in reversed order.\n*\n@kotlin.internal.InlineOnly\n*public inline fun StringBuilder.reverse(): String \{ return this\}
val *\* Returns a [Map] containing key-value pairs provided by [transform] function applied to characters of the given char sequence.\n* @sample samples.text.Strings.associate\n*
*public fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> \{ val capacity = mapCapacity(length).coerceAtLeast(16)\}
return associateTo(LinkedHashMap<K, V>(capacity), transform)\}
val *\* Returns a [Map] containing characters from the given char sequence indexed by the key \* returned from [keySelector] function applied to each character.\n* @sample samples.text.Strings.associate\n*
*public fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> \{ val capacity = mapCapacity(length).coerceAtLeast(16)\}
return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\}
val *\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n* @sample samples.text.Strings.associateBy\n*
*public fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> \{ val capacity = mapCapacity(length).coerceAtLeast(16)\}
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector)\}
val *\* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n* @sample samples.text.Strings.associateBy\n*
*public fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> \{ val capacity = mapCapacity(length).coerceAtLeast(16)\}
return associateByTo(LinkedHashMap<K, V>(capacity), keySelector)\}
keySelector, valueTransform)\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. If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n    */
CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)\n    }\n    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to characters of the given char sequence.\n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> V): M {
    for (element in this) {
        destination.put(keySelector(element), valueTransform(element))\n    }\n    return destination\n}

/**
 * Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each character of the given char sequence.\n * If any two characters are equal, the last one overwrites the former value in the map.\n */
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)\n    }\n    return destination\n}

/**
 * Returns a [Map] where keys are characters from the given char sequence and values are produced by the [valueSelector] function applied to each character.\n * If any two characters are equal, the last one gets added to the map.\n */
@SinceKotlin("1.3")
public inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
    val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}

/**
 * Returns a [HashSet] of all characters.\n */
public fun CharSequence.toHashSet(): HashSet<Char> {
    return toCollection(HashSet<Char>(mapCapacity(length)))\n}

/**
 * Returns a [List] containing all characters.\n */
public fun CharSequence.toList(): List<Char> {
    return when (length) {
        0 -> emptyList<Char>()\n        1 -> listOf(this[0])\n        else -> this.toMutableList()\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 */
public inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)\n}

/**
 * Appends all characters to the given [destination] collection.\n */
public fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {
    for (item in this) {
        destination.add(item)\n    }\n    return destination\n}

/**
 * Groups characters of the original char sequence by the key returned by the given [keySelector] function applied to each character of the given char sequence and returns a map where each group key is associated with a list of corresponding characters.\n */
public fun <K, C : MutableCollection<in R>> CharSequence.toMap(keySelector: (Char) -> K): Map<K, C> {
    val result = TreeMap<K, C>(comparingNatural())\n    for (element in this) {
        val list = transform(element)\n        result += keySelector(element) to list\n    }\n    return result\n}

/
the original char sequence.

```kotlin
public inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {
    return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)
}

public inline fun <K> CharSequence.groupByTo(destination: MutableMap<K, MutableList<Char>>, keySelector: (Char) -> K): MutableMap<K, MutableList<Char>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<Char>() }
        list.add(element)
    }
    return destination
}

public inline fun <K, V> CharSequence.groupByTo(destination: MutableMap<K, MutableList<V>>, keySelector: (Char) -> K, valueTransform: (Char) -> V): MutableMap<K, MutableList<V>> {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

public inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {
    return object : Grouping<Char, K> {
        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()
        override fun keyOf(element: Char): K = keySelector(element)
    }
}

public inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {
    return mapTo(ArrayList<R>(length), transform)
}

public inline fun <R> CharSequence.mapIndexed(transform: (Int, Char) -> R): List<R> {
    return mapIndexedTo(ArrayList<R>(length), transform)
}

public inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (Int, Char) -> R?): List<R> {
    return mapIndexedNotNullTo(ArrayList<R>(), transform)
}

public inline fun <R : Any, C : MutableCollection<R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (Int, Char) -> R?): C {
    forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }
    return destination
}

public inline fun <K, V> CharSequence.groupByKeysAndValues(): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}
```

```kotlin
/**
 * Groups characters of the original char sequence by the key returned by the given [keySelector] function applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.
 */
```

```kotlin
/**
 * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations
 * @return The [destination] map.
 */
```

```kotlin
/**
 * Returns a list containing the results of applying the given [transform] function to each character in the original char sequence.
 */
```

```kotlin
/**
 * Groups values returned by the [valueTransform] function applied to each character of the original char sequence
 * by the key returned by the given [keySelector] function and returns a map where each group key is associated with a list of corresponding values.
 */
```

```kotlin
/**
 * Returns a list containing the results of applying the given [transform] function to each character and its index in the original char sequence.
 */
```

```kotlin
/**
 * Returns a list containing only the non-null results of applying the given [transform] function to each character and its index in the original char sequence.
 */
```

```kotlin
/**
 * Applies the given [transform] function to each character and its index in the original char sequence
 * and appends the results to the given [destination].
 */
```
public inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Returns a list containing only the non-null results of applying the given
 * transform function to each character in the original char sequence.
 */
public inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {
    return mapNotNullTo(ArrayList<R>(), transform)
}

/**
 * Applies the given [transform] function to each character in the original char sequence
 * and appends only the non-null results to the given [destination].
 */
public inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Returns a lazy [Iterable] that wraps each character of the original char sequence
 * into an [IndexedValue] containing the index of that character and the character itself.
 */
public fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all characters match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.all
 */
public inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if char sequence has at least one character.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
public fun CharSequence.any(): Boolean {
    return !isEmpty()
}

/**
 * Returns `true` if at least one character matches the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithPredicate
 */
public inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return true
    return false
}

/**
 * Performs the given [action] on each character.
 */
public inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each character with its index in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
    for (index in this.indices)
        action(index, get(index))
}

/**
 * Performs the given [action] on each character in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNull(action: (index: Int, Char?) -> Unit): Unit {
    for (index in this.indices)
        action(index, get(index))
}

/**
 * Performs the given [action] on each character in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNullWithPredicate(action: (index: Int, Char?, predicate: (Char) -> Boolean) -> Unit): Unit {
    for (index in this.indices)
        if (predicate(get(index))) action(index, get(index))
}

/**
 * Performs the given [action] on each character with its index in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNullWithPredicate(action: (index: Int, Char?, predicate: (Char) -> Boolean) -> Unit): Unit {
    for (index in this.indices)
        if (predicate(get(index))) action(index, get(index))
}

/**
 * Performs the given [action] on each character with its index in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNullWithPredicate_INDEFINITE(action: (index: Int, Char?, predicate: (Char) -> Boolean) -> Unit): Unit {
    for (index in this.indices)
        if (predicate(get(index))) action(index, get(index))
}

/**
 * Performs the given [action] on each character in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNullWithPredicate_INDEFINITE(action: (index: Int, Char?, predicate: (Char) -> Boolean) -> Unit): Unit {
    for (index in this.indices)
        if (predicate(get(index))) action(index, get(index))
}

/**
 * Performs the given [action] on each character with its index in the original char sequence
 * and the character itself.
 */
public fun CharSequence.forEachIndexedNotNullWithPredicate_INDEFINITE_INDEFINITE(action: (index: Int, Char?, predicate: (Char) -> Boolean) -> Unit): Unit {
    for (index in this.indices)
        if (predicate(get(index))) action(index, get(index))
}
Performs the given [action] on each character, providing sequential index with the character.

`text = "Hello, world!"` and param [action] is `fun Char -> String { return Char.value + Char.index.toString() }` produces `"H1ello, w2orld!"`.

This method effectively implements a for-each loop with index tracking, which can be useful for operations requiring both character and index values without the overhead of an explicit loop.

```kotlin
@SinceKotlin("1.1")
public inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {
    return apply { for (element in this) action(element) }
}
```

This feature allows for concise and readable iteration over sequences, particularly when combined with other sequence utilities like `reduce` and `forEachIndexed`.

The `onEach` method is similar to the `forEach` method in other programming languages, but with the added benefit of handling the index of each element directly, making it easier to reason about the sequence's structure and content.

This functionality is particularly useful in scenarios where you need to perform operations that require both the current element and its position in the sequence, such as logging, formatting, or any kind of transformation that needs to be aware of its current place in the sequence.

In conclusion, this method provides a powerful tool for developers to access and manipulate sequences with enhanced understanding of their position and values, enhancing the expressiveness and efficiency of their code.
if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")

var accumulator = get(index--)
while (index >= 0) {
    accumulator = operation(get(index--), accumulator)
}
return accumulator

return accumulator

* Accumulates value starting with last character and applying [operation] from right to left
* to each character with its index in the original char sequence and current accumulator value.

@param [operation] function that takes the index of a character, the character itself and current accumulator value, and calculates the next accumulator value.

CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char

CharSequence.sumBy(selector: (Char) -> Int): Int

CharSequence.sumByDouble(selector: (Char) -> Double): Double

CharSequence.chunked(size: Int): List<String>

CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R>

CharSequence.chunkedSequence(size: Int): Sequence<String>

CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R>

CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence>

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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`. 
*/
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. 
*/
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 each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step]. 
*/
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. 
*/
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {
    return windowedSequence(size, step, partialWindows) { it.toString() }
}
samples.collections-Sequences.Transformations.averageWindows
 */
@SinceKotlin("1.2")
public fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform:
(CharSequence) -> R): Sequence<R>

val windows = (if (partialWindows) indices else 0 until length - size + 1) step step

for (window in windows)
    transform(window)

/**
 * Returns a list of pairs 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.
 */
public inline fun <V> CharSequence.zipWithNext(transform: (CharSequence, CharSequence) -> V): List<V> {
    val size = length - 1
    val result = ArrayList<V>(size)
    for (index in 0 until size) {
        result.add(transform(this, this[index + 1]))
    }
    return result
}

/**
 * Returns a list of pairs of each two adjacent characters in this char sequence.
 */
@SinceKotlin("1.2")
public 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.
 */
@SinceKotlin("1.2")
public inline fun <R> CharSequence.zipWithNext(transform: (CharSequence, CharSequence) -> 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, this[index + 1]))
    }
    return result
}

/**
 * Returns a list containing the results of applying the given [transform] function to an each pair of two adjacent
 * characters in this char sequence.
 */
@SinceKotlin("1.2")
public func
(Char) -> Boolean): CharSequence {<br>for (index in this.indices.reversed())<br>    if (!predicate(this[index]))<br>        return subSequence(0, index + 1)<br>return ""<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}

/**
 * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.<br> */
public inline fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a string having trailing characters from the [chars] array removed.<br> */
public fun String.trimEnd(vararg chars: Char): String = <br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.<br> */
public fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a string having leading whitespace removed.<br> */
public fun String.trim(): String = (this as CharSequence).trim().toString()<br><br>/**
 * Returns a sub sequence of this char sequence having leading whitespace removed.<br> */
public fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a string having trailing whitespace removed.<br> */
public fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()<br><br>/**
 * Returns a sub sequence of this char sequence having trailing whitespace removed.<br> */
public fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a char sequence with content of this char sequence padded at the beginning to the specified [length] with the specified character or space.<br> */
public fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0)
        throw IllegalArgumentException("Desired length $length is less than zero.")
    if (length <= this.length)
        return this.subSequence(0, this.length)

    val sb = StringBuilder(length)<br>    for (i in 1..<length)
        sb.append(padChar)<br>    sb.append(this)<br>    return sb.toString()<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a string having trailing whitespace removed.<br> */
public fun String.padEnd(length: Int, padChar: Char = ' '): String =
    (this as CharSequence).padEnd(length, padChar).toString()<br><br>/**
 * Returns a char sequence with content of this char sequence padded at the end to the specified [length] with the specified character or space.<br> */
public fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0)
        throw IllegalArgumentException("Desired length $length is less than zero.")
    if (length <= this.length)
        return this.subSequence(0, this.length)

    val sb = StringBuilder(length)<br>    sb.append(this)<br>    for (i in 1..<length)
        sb.append(padChar)<br>    return sb.toString()<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}<br><br>/**
 * Returns a string having trailing whitespace removed.<br> */
public fun String.padEnd(length: Int, padChar: Char = ' '): String =
    (this as CharSequence).padEnd(length, padChar).toString()<br><br>/**
 * Returns a char sequence with content of this char sequence padded at the end to the specified [length] with the specified character or space.<br> */
public fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {
    if (length < 0)
        throw IllegalArgumentException("Desired length $length is less than zero.")
    if (length <= this.length)
        return this.subSequence(0, this.length)

    val sb = StringBuilder(length)<br>    sb.append(this)<br>    for (i in 1..<length)
        sb.append(padChar)<br>    return sb.toString()<br><br>    return subSequence(0, index + 1)<br><br>    return subSequence(0, index + 1)<br><br>    return ""
}
@param length the desired string length.

@sample samples.text.Strings.padEnd

```kotlin
@public fun String.padEnd(length: Int, padChar: Char = ' '): String =
    (this as CharSequence).padEnd(length, padChar).toString()
```

```kotlin
/**
 * Returns `true` if this nullable char sequence is either `null` or empty.
 * @sample samples.text.Strings.stringIsNullOrEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrEmpty(): Boolean {
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

    return this == null || this.length == 0
}

/**
 * Returns `true` if this char sequence is empty (contains no characters).
 * @sample samples.text.Strings.stringIsEmpty
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.isEmpty(): Boolean = length == 0

/**
 * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.
 * @sample samples.text.Strings.stringIsNullOrBlank
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence?.isNullOrBlank(): Boolean {
    contract {
        returns(false) implies (this@isNullOrBlank != null)
    }

    return this == null || this.isBlank()
}

/**
 * Returns `true` if this char sequence is not empty and doesn't consist solely of whitespace characters,
 * or the result of calling `defaultValue` function otherwise.
 * @sample samples.text.Strings.stringIfBlank
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =
    if (isBlank()) defaultValue() else this

/**
 * Returns the range of valid character indices for this char sequence.
 */
public val CharSequence.indices: IntRange
    get() = 0..length - 1

/**
 * Returns the index of the last character in the char sequence or -1 if it is empty.
 */
public val CharSequence.lastIndex: Int
    get() = this.length - 1

/**
 * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].
 * @sample samples.text.Strings.stringHasSurrogatePair
 */
@SinceKotlin("1.3")
@public fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {
    return index in 0..length - 2
            && this[index].isHighSurrogate()
            && this[index + 1].isLowSurrogate()
}

/**
 * Returns a substring of chars from a range of this char sequence starting at the
 * specified [range] of indices.
 * @sample samples.text.Strings.stringSubstring
 */
public fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)

/**
 * Returns a subsequence of this char sequence.
 * @sample samples.text.Strings.stringSubSequence
 */
public fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)

/**
 * Returns a substring of chars from a range of this char sequence starting at the
 * specified [range] of indices.
 * @sample samples.text.Strings.stringSubstring
 */
public fun String.substring(start: Int, end: Int): String = subSequence(start, end)
```
[startIndex] and ending right before the [endIndex].
* @param startIndex the start index (inclusive).
* @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.

*/
@kotlin.internal.InlineOnly
public inline fun CharSequence.substringAt(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()

 /**
 * Returns a substring of chars at indices from the specified [range] of this char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun CharSequence.substringAt(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()

 /**
 * Returns a substring before the first occurrence of [delimiter].
 */
public fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

 /**
 * Returns a substring before the first occurrence of [delimiter].
 */
public fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

 /**
 * Returns a substring after the first occurrence of [delimiter].
 */
public fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = indexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + 1, length)
}

 /**
 * Returns a substring after the first occurrence of [delimiter].
 */
public fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

 /**
 * Returns a substring before the last occurrence of [delimiter].
 */
public fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

 /**
 * Returns a substring before the last occurrence of [delimiter].
 */
public fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(0, index)
}

 /**
 * Returns a substring after the last occurrence of [delimiter].
 */
public fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

 /**
 * Returns a substring after the last occurrence of [delimiter].
 */
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {
    val index = lastIndexOf(delimiter)
    return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)
}

 /**
 * Returns a char sequence with content of this char sequence where its part at
 * the given range
 * is replaced with the [replacement] char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun String.replaceRangeAt(startIndex: Int, endIndex: Int, replacement: String): String =
    (this as CharSequence).replaceRangeAt(startIndex, endIndex, replacement).toString()

 /**
 * Replaces the part of the string at the given range
 * with the [replacement] char sequence.
 */
@kotlin.internal.InlineOnly
public inline fun String.replaceRangeAt(startIndex: Int, endIndex: Int, replacement: String): String =
    (this as CharSequence).replaceRangeAt(startIndex, endIndex, replacement).toString()


in the part to be replaced.

```kotlin
public fun CharSequence.replaceRange(range: IntRange, replacement: 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.
 */
public fun String.replaceRange(range: IntRange, replacement: String) =
    (this as CharSequence).replaceRange(range).toString()
```

```
/**
 * Returns a char sequence with content of this char sequence where its part at the
given range is removed.
 */
public fun CharSequence.removeRange(range: IntRange): CharSequence =
    removeRange(range.start, range.endInclusive + 1)
```

```
/**
 * Removes the part of a string at the given range.
 */
public fun String.removeRange(range: IntRange): String =
    (this as CharSequence).removeRange(range).toString()
```

```
/**
 * When this char sequence starts with the given [prefix], returns a new char sequence
 * with the prefix removed.
 */
public fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {
    if (startsWith(prefix)) {
        return subSequence(prefix.length, length)
    }
    return subSequence(0, length)
}
```

```
/**
 * Removes from a string both the given [prefix] and [suffix] if and only if
 * it starts with the [prefix] and ends with the [suffix].
 */
public fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {
    if (length >= prefix.length + suffix.length) &&
        startsWith(prefix) &&
        endsWith(suffix) {
        return substring(prefix.length, length - suffix.length)
    }
    return this
}
```

```
/**
 * Removes the given [delimiter] string from both
 * the beginning and the end of the string.
 */
public fun String.removeSurrounding(delimiter: CharSequence): String {
    if (length >= delimiter.length + suffix.length) &&
        startsWith(delimiter) &&
        endsWith(delimiter) {
        return substring(delimiter.length, length - delimiter.length)
    }
    return this
}
```
the start and the end of this string

* If and only if it starts with and ends with the [delimiter].

* Otherwise returns this string unchanged.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

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[missingDelimiterValue] which defaults to the original string.

* If the string does not contain the delimiter, returns

[missingDelimiterValue] which defaults to the original string.
(MatchResult) -> CharSequence): String =
    regex.replace(this, transform) /* Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression. */

    @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.

    Implementation of [regionMatches] for CharSequences.
    Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.

    Optional regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean

    public inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement) /* Returns 'true' if this char sequence matches the given regular expression. */

    public inline fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)

    @internal
    internal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {
        if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {
            return false
        }
        var index = 0
        var result = true
        while (index < length) {
            if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))
                result = false
                break
            index++
        }
        return result
    }

    @internal
    public fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =
        this.length > 0 && this[0].equals(char, ignoreCase)

    @internal
    public fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =
        this.length > 0 && this[this.length - 1].equals(char, ignoreCase)

    @internal
    public fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {
        if (!ignoreCase && this is String && prefix is String)
            return this.startsWith(prefix)
        else
            return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase) /* Returns 'true' if a substring of this char sequence starting at the specified offset [startIndex] starts with the specified prefix. */
    }

    @internal
    public fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {
        if (!ignoreCase && this is String && prefix is String)
            return this.startsWith(prefix, startIndex)
        else
            return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase) /* Returns 'true' if this char sequence starts with the specified prefix. */
    }

    @internal
    public fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {
        if (!ignoreCase && this is String && suffix is String)
            return this.endsWith(suffix)
        else
            return regionMatchesImpl(this.length - suffix.length, suffix, 0, suffix.length, ignoreCase) /* Returns 'true' if a substring of this char sequence ends with the specified suffix. */
    }

    @internal
    public fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {
        if (!ignoreCase && this is String && suffix is String)
            return this.endsWith(suffix)
        else
            return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase) /* Returns 'true' if this char sequence ends with the specified suffix. */
    }

    @internal
    public fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {
        val shortestLength = minOf(this.length, other.length)
        var i = 0
        while (i < shortestLength && this[i].equals(other[i], ignoreCase))
            i++
        if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1))
            return subSequence(0, i).toString() /* Returns the longest string 'prefix' such that this char sequence and [other] char sequence both start with this prefix, not taking care not to split surrogate pairs. */
        else
            return this.subSequence(0, i).toString() /* Returns the longest string 'prefix' such that this char sequence and [other] char sequence both start with this prefix, not taking care not to split surrogate pairs. */
    }

    @internal
    public fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {
        val thisLength = this.length
        val otherLength = other.length
        val shortestLength = minOf(this.length, other.length)
        var i = 0
        while (i < shortestLength && this[i].equals(other[i], ignoreCase))
            i++
        if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1))
            return subSequence(this.length - i, thisLength).toString() /* Returns the longest string 'suffix' such that this char sequence and [other] char sequence both end with this suffix, not taking care not to split surrogate pairs. */
        else
            return this.subSequence(this.length - i, thisLength).toString() /* Returns the longest string 'suffix' such that this char sequence and [other] char sequence both end with this suffix, not taking care not to split surrogate pairs. */
    }

    @internal
    public fun CharSequence.startsWith(prefix: CharSequence, start: Int, ignoreCase: Boolean = false): Boolean {
        if (!ignoreCase && this is String && prefix is String)
            return this.startsWith(prefix, start)
        else
            return regionMatchesImpl(start, prefix, 0, prefix.length, ignoreCase) /* Returns 'true' if a substring of this char sequence starting at the specified offset [start] starts with the specified prefix. */
    }

    @internal
    @sample samples.text.Strings.commonPrefixWith
    @internal
    public fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {
        val shortestLength = minOf(this.length, other.length)
        var i = 0
        while (i < shortestLength && this[i].equals(other[i], ignoreCase))
            i++
        if (i < shortestLength)
            return subSequence(0, i).toString() /* Returns the longest string 'prefix' such that this char sequence and [other] char sequence both start with this prefix, not taking care not to split surrogate pairs. */
        else
            return this.subSequence(0, i).toString() /* Returns the longest string 'prefix' such that this char sequence and [other] char sequence both start with this prefix, not taking care not to split surrogate pairs. */
    }

    @internal
    @sample samples.text.Strings.commonSuffixWith
    @internal
    public fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {
        val thisLength = this.length
        val otherLength = other.length
        val shortestLength = minOf(this.length, other.length)
        var i = 0
        while (i < shortestLength && this[i].equals(other[i], ignoreCase))
            i++
        if (i < shortestLength)
            return subSequence(this.length - i, thisLength).toString() /* Returns the longest string 'suffix' such that this char sequence and [other] char sequence both end with this suffix, not taking care not to split surrogate pairs. */
        else
            return this.subSequence(this.length - i, thisLength).toString() /* Returns the longest string 'suffix' such that this char sequence and [other] char sequence both end with this suffix, not taking care not to split surrogate pairs. */
    }
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/**
 * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,
 * starting from the specified [startIndex] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.
 */
public fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = 0, endIndex: Int = length, ignoreCase: Boolean = false): Int {
    val string = strings.single()
    val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)
    return if (index < 0) -1 else index
}

/**
 * Finds the first occurrence of any of the specified [strings] in this char sequence,
 * starting from the specified [startIndex] and optionally ignoring the case.
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the first occurrence of matched string from [strings] or `null` if none of [strings] are found.
 */
public fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, endIndex: Int = length, ignoreCase: Boolean = false): Int {
    val string = strings.single()
    val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)
    return if (index < 0) -1 else index
}
have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [strings] that matches this string at that position.

```kotlin
public fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =
    findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1

/**
 * Finds the index of the last occurrence of any of the specified [strings] in this char sequence.
 * @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 matched string from [strings] or `-1` if none of [strings] are found.
 * @param last `true` to avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from the end toward the beginning of this string, and finds at each position the first element in [strings] that matches this string at that position.
 */
public fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =
    findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1
```

```kotlin
/**
 * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].
 * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of the first occurrence of [char] or `-1` if none is found.
 */
public fun CharSequence.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 matched string from [strings] or `-1` if none of [strings] are found.
 */
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 first 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 first occurrence of matched string from [strings] or `-1` if none of [strings] are found.
 */
public fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
    return if (ignoreCase || this !is String)
        lastIndexOfAny(string, startIndex, 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`.
 * @return `true` if this char sequence contains the specified [other] sequence of characters as a substring.
 */
@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 at least one match of the specified regular expression [regex].
 */
@kotlin.internal.InlineOnly
public inline operator fun CharSequence.contains(regex: Regex): Boolean =
```
char sequence to a list of strings around occurrences of the specified [delimiters].

* @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and matches at each position the first element in [delimiters] that is equal to a delimiter in this instance at that position.

* @return The maximum number of substrings to return.

*/

fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
    if (delimiters.size == 1) {
        val delimiter = delimiters[0]
        if (delimiter.isEmpty()) {
            return split(delimiter, ignoreCase, limit)
        }
    }

    return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a sequence 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.
 */

fun CharSetSequence.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.
 */

private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
    require(limit >= 0, { "Limit must be non-negative, but was $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) + 1
    } while (nextIndex != -1)

    result.add(substring(currentOffset, length))
    return result
}

/**
 * Splits this char sequence around matches of the given regular expression.
 * @param limit Non-negative value specifying the maximum number of substrings to return.
 */

@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 lines delimited by any of the following character sequences: CRLF, LF or CR.
 * The lines returned do not include terminating line separators.
 */

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.
 */

fun CharSequence.lines(): List<String> = lineSequence().toList()
array bounds.

```kotlin
@SinceKotlin("1.2")
@public actual fun String(chars: CharArray, offset: Int, length: Int):
    String {  
        if (offset < 0 || length < 0) throw IndexOutOfBoundsException()
        var result = \\
        for (index in offset until offset + length) {  
            result += char[index]
        }
        return result
    }

@SinceKotlin("1.3")
@public actual fun CharArray.concatToString(): String {
    var result = \\
    for (char in this) {  
        result += char
    }
    return result
}

@SinceKotlin("1.3")
@public actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    var result = \\
    for (index in startIndex until endIndex) {  
        result += this[index]
    }
    return result
}

@SinceKotlin("1.3")
@public actual fun String.toCharArray(): CharArray {
    return CharArray(length) { get(it) }
}

@SinceKotlin("1.3")
@public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return CharArray(endIndex - startIndex) {
        get(startIndex + it)
    }
}

@SinceKotlin("1.3")
@public actual fun ByteArray.decodeToString(): String {
    return decodeUtf8(this, 0, size, false)
}

@SinceKotlin("1.3")
@public actual fun ByteArray.decodeToString(
    startIndex: Int = 0,
    endIndex: Int = this.size,
    throwOnInvalidSequence: Boolean = false
): String {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}

@SinceKotlin("1.3")
@public actual fun String.encodeToByteArray(): ByteArray {
    return encodeUtf8(this, 0, length, false)
}

@SinceKotlin("1.3")
@public actual fun String.encodeToByteArray(
    startIndex: Int = 0,
    endIndex: Int = this.length,
    throwOnInvalidSequence: Boolean = false
): ByteArray {
    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
    return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)
}
```

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of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS
* where the behavior is unspecified.
 */

public operator fun get(index: Int, value: UByte) { 
    storage[index] = value.toByte()
} 
/** Returns the number of elements in the array. */

class Iterator(private val array: ByteArray) : UByteIterator {
    private var index = 0
    override fun hasNext() = index < array.size
    override fun nextUByte() = if (index < array.size)
        array[index++].toUByte()
    else throw NoSuchElementException(index.toString())
}

/** Creates an iterator over the elements of the array. */

public override operator fun iterator(): UByteIterator =
    Iterator(storage) 

/** Returns the number of elements in the array. */

public override val size: Int get() = storage.size

/** Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. */

public @ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: ByteArray) : Collection<UByte>() { 
    this(storage) 
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function.
 * 
 * The function [init] is called for each array element sequentially starting from the first one.
 */

public inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {
    return UByteArray(ByteArray(size) { index ->
        init(index).toByte()
    })
}

@ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: IntArray) : Collection<UInt>() {
    this(storage) 
}

/**
 * Creates an iterator over the elements of the array. */

public override operator fun iterator(): UIntIterator =
    Iterator(storage) 

/** Returns the number of elements in the array. */

public override val size: Int get() = storage.size

/** Creates an iterator over the elements of the array. */

public override operator fun iterator(): UIntIterator =
    Iterator(storage) 

/**
 * Creates an iterator over the elements of the array. */

public override operator fun iterator(): UIntIterator =
    Iterator(storage) 

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. */

public @ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: IntArray) : Collection<UInt>() { 
    this(storage) 
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. */

public @ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: IntArray) : Collection<UInt>() { 
    this(storage) 
}

/**
 * Creates an iterator over the elements of the array. */

public override operator fun iterator(): UIntIterator =
    Iterator(storage) 

/** Returns the number of elements in the array. */

public override val size: Int get() = storage.size

/** Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. */

public @ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: IntArray) : Collection<UInt>() { 
    this(storage) 
}

/**
 * Creates a new array of the specified [size], where each element is calculated by calling the specified
 * [init] function. */

public @ExperimentalUnsignedTypes
@PublishedApi
internal constructor(storage: IntArray) : Collection<UInt>() { 
    this(storage) 

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init(index).toInt() )
}

fun init(index: Int): UInt {
    return index
}

init(index: Int) { "\n    // TODO: Eliminate this check after KT-30016 gets fixed.\n    // Currently JS BE does not generate special bridge method for this method.\n    // If (element as Any?) !is ULong) return false\n    return storage.contains(element.toLong())
}
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun compareTo(other: ULong): Int = this.compareTo(other.toULong())
/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */

/**
 * Compares this value with the specified value for order.
 * Returns zero if this value is equal to the specified other value, a negative number if it's less than other, or a positive number if it's greater than other.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())
/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())
/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())
/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))
/**
 * Adds the other value to this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())
/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())
/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())
/**
 * Subtracts the other value from this value.
 */
@kotlin.internal.InlineOnly
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))
/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UByte): ULong = this.times(other.toULong())
/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UShort): ULong = this.times(other.toULong())
/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())
/**
 * Multiplies this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))
/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UByte): ULong = this.div(other.toULong())
/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UShort): ULong = this.div(other.toULong())
/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: UInt): ULong = this.div(other.toULong())
/**
 * Divides this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)
/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())
/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())
/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())
/**
 * Calculates the remainder of dividing this value by the other value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)
/**
 * Creates a range from this value to the specified [other] value.
 */
@kotlin.internal.InlineOnly
public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)
/**
 * Shifts this value left by the [bitCount]
number of bits. */

@kotlin.internal.InlineOnly
public inline infix fun shl(bitCount: Int): ULong =
ULong(data.shl(bitCount))
/** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. */

@kotlin.internal.InlineOnly
public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr(bitCount))
/** Performs a bitwise AND operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun and(other: ULong): ULong = ULong(this.data
and other.data)
/** Performs a bitwise OR operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun or(other: ULong): ULong = ULong(this.data
or other.data)
/** Performs a bitwise XOR operation between the two values. */

@kotlin.internal.InlineOnly
public inline infix fun xor(other: ULong): ULong = ULong(this.data
xor other.data)
/** Inverts the bits in this value. */

@kotlin.internal.InlineOnly
public inline fun inv(): ULong = ULong(data.inv())
/** Converts this [ULong] 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 `ULong`. *

* The resulting `Byte` value is represented by the least significant 8 bits
of this `ULong` value.

* Note that the resulting `Byte` value may be negative.

@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data.toByte() */

* Converts this [ULong] 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 `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.

* In case when this `ULong` value is exactly between two `Float`s, *

* the one with zero at least significant bit of mantissa is selected.

* In case when this `ULong` value is exactly between two `Double`s, *

* the one with zero at least significant bit of mantissa is selected.

* 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("1.3") @ExperimentalUnsignedTypes
public inline fun Byte.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Byte` value to `ULong`. This method can be called using the index operator.
 * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
 * where the behavior is unspecified.
 * @since 1.3
 */

@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun Short.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Short` value to `ULong`. This method can be called using the index operator.
 * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
 * where the behavior is unspecified.
 * @since 1.3
 */

@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun Int.toULong(): ULong = ULong(this.toLong())
/**
 * Converts this `Int` value to `ULong`. This method can be called using the index operator.
 * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
 * where the behavior is unspecified.
 * @since 1.3
 */

@SinceKotlin("1.3") @ExperimentalUnsignedTypes
public inline fun Long.toULong(): ULong = ULong(this)

/**
 * Converts this `Float` value to `ULong`. This method can be called using the index operator.
 * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
 * where the behavior is unspecified.
 * @since 1.3
 */

@SinceKotlin("1.3") @ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline class UShortArray
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@PublishedApi internal constructor(storage: ShortArray) : Collection<UShort> {

    /** Creates a new array of the specified `size`, with all elements initialized to zero. */
    public constructor(size: Int) :

    /**
     * Returns the array element at the given `index`. This method can be called using the index operator.
     * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
     * where the behavior is unspecified.
     */
    public operator fun get(index: Int): UShort = storage[index].toUShort()

    /**
     * Sets the element at the given `index` to the given value. This method can be called using the index operator.
     * If the `index` is out of bounds of this array, throws an `IndexOutOfBoundsException` except in Kotlin/JS
     * where the behavior is unspecified.
     */
    public operator fun set(index: Int, value: UShort) {
        storage[index] = value.toShort()
    }

    /** Returns the number of elements in the array. */
    public override val size: Int get() = storage.size

    /** Creates an iterator over the elements of the array. */
    public override operator fun iterator(): UShortIterator = Iterator(storage)

    private class Iterator(private val array: ShortArray) : UShortIterator() {
        private var index = 0
        override fun hasNext() = index < array.size
        override fun nextUShort() = if (index < array.size) array[++index].toUShort() else throw NoSuchElementException(index.toString())
    }

    override fun contains(element: UShort): Boolean {
        return storage.contains(element.toShort())
    }

    override fun containsAll(elements: Collection<UShort>): Boolean {
        return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }
    }

    override fun isEmpty(): Boolean = this.storage.isEmpty()
}

/**
 * Creates a new array of the specified `size`, where each element is calculated by calling the specified `init`
 */
function.

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* The function \texttt{[init]} is called for each array element sequentially starting from the first one.\n
*\texttt{unsigned*}

* It should return the value for an array element given its index.\n
```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {
    return UShortArray(ShortArray(size) { index -> init(index).toShort() })
}
```

*\texttt{unsigned*}

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*\texttt{unsigned*}

* Jar contents: `kotlin.jar` for all Kotlin language contributors.\n
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* This file is AUTO-GENERATED by the GenerateStandardLib.kt script.

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* See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

```kotlin
import kotlin.random.*
import kotlin.ranges.*

fun UIntArray.component1(): UInt {
    return get(0)
}

fun ULongArray.component1(): ULong {
    return get(0)
}

fun UByteArray.component1(): UByte {
    return get(0)
}

fun UShortArray.component1(): UShort {
    return get(0)
}

fun UIntArray.component2(): UInt {
    return get(1)
}

fun ULongArray.component2(): ULong {
    return get(1)
}

fun UByteArray.component2(): UByte {
    return get(1)
}

fun UShortArray.component2(): UShort {
    return get(1)
}

fun UIntArray.component3(): UInt {
    return get(2)
}

fun ULongArray.component3(): ULong {
    return get(2)
}

fun UByteArray.component3(): UByte {
    return get(2)
}

fun UShortArray.component3(): UShort {
    return get(2)
}

fun UIntArray.component4(): UInt {
    return get(3)
}

fun ULongArray.component4(): ULong {
    return get(3)
}

fun UByteArray.component4(): UByte {
    return get(3)
}

fun UShortArray.component4(): UShort {
    return get(3)
}

fun UIntArray.component5(): UInt {
    return get(4)
}
```

*\texttt{unsigned*}

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/**
 * Returns 5th *element* from the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UByteArray.component5(): UByte {
    return get(4)
}

/**
 * Returns 5th *element* from the collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun
UShortArray.component5(): UShort {
    return get(4)
}

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAt(index: Int): UInt

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAt(index: Int): ULong

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAt(index: Int): UByte

/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAt(index: Int): UShort

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UIntArray.elementAtOrNull(index: Int): UInt?

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun ULongArray.elementAtOrNull(index: Int): ULong?

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UByteArray.elementAtOrNull(index: Int): UByte?

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public expect fun UShortArray.elementAtOrNull(index: Int): UShort?
samples.collections.Collections.Elements.elementAtOrNull

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.elementAtOrNull(index: Int): UByte? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.elementAtOrNull(index: Int): UShort? {
    return this.getOrNull(index)
}

/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {
    return firstOrNull(predicate)
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.first(): UInt {
    return storage.first().toUInt()
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.first(): ULong {
    return storage.first().toULong()
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.first(): UByte {
    return storage.first().toUByte()
}

/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.first(): UShort {
    return storage.first().toUShort()
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}

/**
 * Returns first element.
 * @throws [NoSuchElementException] if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {
    for (element in this) if (predicate(element)) return element
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
element is found.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n  for (element in this) if (predicate(element)) return
  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n* Returns the first element matching the given [predicate].\n* @throws [NoSuchElementException] if no such element is found.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n  for (element in this) if (predicate(element)) return
  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n* Returns the first element matching the given [predicate].\n* @throws [NoSuchElementException] if no such element is found.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UCharArray.first(predicate: (UChar) -> Boolean): UChar {\n  for (element in this) if (predicate(element)) return
  throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n* Returns the first element matching the given [predicate].\n* @throws [NoSuchElementException] if no such element is found.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.firstOrNull(): UShort? {
  return if (isEmpty()) null else this[0]\n}\n\n* Returns the first element, or ‘null’ if the array is empty.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.firstOrNull(): UInt? {
  return if (isEmpty()) null else this[0]\n}\n\n* Returns the first element, or ‘null’ if the array is empty.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.firstOrNull(): ULong? {
  return if (isEmpty()) null else this[0]\n}\n\n* Returns the first element, or ‘null’ if the array is empty.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.firstOrNull(): UByte? {
  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.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {
  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}\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.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {
  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.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UCharArray.getOrElse(index: Int, defaultValue: (Int) -> UChar): UChar {
  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.

änder @ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {
  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.
such element.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {
    return storage.indexOfLast {
        it.toULong() } *
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {
    return storage.indexOfLast {
        it.toUByte() } *
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {
    return storage.indexOfLast {
        it.toUShort() } *
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(): UInt {
    return storage.last().toUInt()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(): ULong {
    return storage.last().toULong()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.last(): UByte {
    return storage.last().toUByte()
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.last(): UShort {
    return storage.last().toUShort()
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.lastIndexOf(element: ULong): Int {
    return storage.lastIndexOf(element.toLong())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toUByte())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toUShort())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    throw NoSuchElementException("Array contains no element matching the predicate.")
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.lastIndexOf(element: ULong): Int {
    return storage.lastIndexOf(element.toLong())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toUByte())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toUShort())
}
```

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastIndexOf(element: UInt): Int {
    return storage.lastIndexOf(element.toInt())
}
```
Returns last index of [element], or -1 if the array does not contain element.

```kotlin
return storage.lastIndexOf(element.toByte())
```

*Returns last index of [element], or -1 if the array does not contain element.*

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UByteArray.lastIndexOf(element: UByte): Int {
    return storage.lastIndexOf(element.toByte())
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public fun UShortArray.lastIndexOf(element: UShort): Int {
    return storage.lastIndexOf(element.toShort())
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.lastOrNull(): UInt? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.lastOrNull(): ULong? {
    return if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns the last element matching the given [predicate], or
 * `null` if no such element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {
    for (index in this.indices.reversed()) {
        val element = this[index]
        if (predicate(element)) return element
    }
    return null
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.random(random: Random): UInt {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.random(): UInt {
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array using the specified source of randomness.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.random(): ULong {
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.random(): UByte {
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.random(): UShort {
    return get(random.nextInt(size))
}

/**
 * Returns a random element from this array.
 * 
 * @throws NoSuchElementException if this array is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.random(random: Random): UShort {
    if (isEmpty())
        throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))
}

```
fun ULongArray.random(random: Random): ULong
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

fun UByteArray.random(random: Random): UByte
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

fun UShortArray.random(random: Random): UShort
    if (isEmpty()) throw NoSuchElementException("Array is empty.")
    return get(random.nextInt(size))

fun UIntArray.single(): UInt
    return storage.single().toUInt()

fun ULongArray.single(): ULong
    return storage.single().toULong()

fun UByteArray.single(): UByte
    return storage.single().toUByte()

fun UShortArray.single(): UShort
    return storage.single().toUShort()

fun UIntArray.single(predicate: (UInt) -> Boolean): UInt
    var single: UInt? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as UInt

fun ULongArray.single(predicate: (ULong) -> Boolean): ULong
    var single: ULong? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as ULong

fun UByteArray.single(predicate: (UByte) -> Boolean): UByte
    var single: UByte? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as UByte

fun UShortArray.single(predicate: (UShort) -> Boolean): UShort
    var single: UShort? = null
    var found = false
    for (element in this) {
        if (predicate(element)) {
            if (found) throw IllegalArgumentException("Array contains more than one matching element.")
            single = element
            found = true
        }
    }
    if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")
    return single as UShort

@Suppress("UNCHECKED_CAST")
fun UIntArray.single(): UInt
    return storage.single().toUInt()

@Suppress("UNCHECKED_CAST")
fun ULongArray.single(): ULong
    return storage.single().toULong()

@Suppress("UNCHECKED_CAST")
fun UByteArray.single(): UByte
    return storage.single().toUByte()

@Suppress("UNCHECKED_CAST")
fun UShortArray.single(): UShort
    return storage.single().toUShort()
contains more than one matching element.

    single = element
    found = true
    } | if (!found) throw NoSuchElementException("Array contains no element matching the predicate.")

    @Suppress("UNCHECKED_CAST")
    return single as UShort
}

/**
 * Returns single element, or `null` if the array is empty or has more than one element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.singleOrNull(): UInt? {
    var single: UInt? = 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 the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {
    var single: UInt? = 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 the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {
    var single: ULong? = 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 the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {
    var single: UByte? = 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 the single element matching the given [predicate], or `null` if element was not found or more than one element was found.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {
    var single: UShort? = 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.drop(n: Int): List<UInt> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.drop(n: Int): List<ULong> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.drop(n: Int): List<UByte> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except first [n] elements.
 * 
 * @throws IllegalArgumentException if [n] is negative.
 * 
 * @sample samples.collections.Collections.Transformations.drop
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}
IllegalArgumentException if \( n \) is negative.\n
@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.drop(n: Int): List<UShort> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return takeLast((size - n).coerceAtLeast(0))
}

/**
 * Returns a list containing all elements except last \( n \) elements.
 * 
 * @throws
 * IllegalArgumentException if \( n \) is negative.\n
@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.dropLast(n: Int): List<UInt> {
    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 \( n \) elements.
 * 
 * @throws
 * IllegalArgumentException if \( n \) is negative.\n
@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.dropLast(n: Int): List<ULong> {
    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 \( n \) elements.
 * 
 * @throws
 * IllegalArgumentException if \( n \) is negative.\n
@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.dropLast(n: Int): List<UByte> {
    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

@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given \[predicate\].
 * 
 * @sample

@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given \[predicate\].
 * 
 * @sample

@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except last elements that satisfy the given \[predicate\].
 * 
 * @sample

@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return take(index + 1)
        }
    }
    return emptyList()
}

/**
 * Returns a list containing all elements except first elements that satisfy the given \[predicate\].
 * 
 * @sample

@sample

```java
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {
    var yielding = false
    val list =
Array.<UInt>()
  for (item in this)
    if (yielding)
      list.add(item)
    else if (!predicate(item))
      list.add(item)
      yielding = true

  return list

* @sample
  samples.collections.Collections.Transformations.drop

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong>
  { val list = ArrayList<ULong>()
    for (item in this)
      if (yielding)
        list.add(item)
      else if (!predicate(item))
        list.add(item)
        yielding = true
    return list

* @sample
  samples.collections.Collections.Transformations.drop

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte>
  { val list = ArrayList<UByte>()
    for (item in this)
      if (yielding)
        list.add(item)
      else if (!predicate(item))
        list.add(item)
        yielding = true
    return list

* @sample
  samples.collections.Collections.Transformations.drop

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort>
  { val list = ArrayList<UShort>()
    for (item in this)
      if (yielding)
        list.add(item)
      else if (!predicate(item))
        list.add(item)
        yielding = true
    return list

* @sample
  samples.collections.Collections.Transformations.drop

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt>
  return filterTo(ArrayList<UInt>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong>
  return filterTo(ArrayList<ULong>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte>
  return filterTo(ArrayList<UByte>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort>
  return filterTo(ArrayList<UShort>(), predicate)

* @sample
  @param [predicate] function that takes the index of an element and the element itself
  * and returns the result of predicate evaluation on the element.

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt>
  return filterIndexedTo(ArrayList<UInt>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong>
  return filterIndexedTo(ArrayList<ULong>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte>
  return filterIndexedTo(ArrayList<UByte>(), predicate)

* @SinceKotlin("1.3")
* @ExperimentalUnsignedTypes
* @kotlin.internal.InlineOnly
public inline fun
  UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort>
  return filterIndexedTo(ArrayList<UShort>(), predicate)

* @sample
  samples.collections.Collections.Transformations.drop

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given [predicate].

@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.filterIndexedTo(destination: List<UInt>, predicate: (Int, UShort) -> Boolean): List<UInt>

filterIndexedTo<ArrayList<UInt>>(C, predicate: (Int, UShort) -> Boolean): C

filterIndexedTo(\n  \n  destination.add(element)\n\n  return destination\n)\n
\n
returns the result of predicate evaluation on the element.

* \n
filterIndexedTo<ArrayList<UInt>>(C, predicate: (Int, UShort) -> Boolean): C

\n
returns the result of predicate evaluation on the element.

* \n
@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (Int, UInt) -> Boolean): C

\n
returns the result of predicate evaluation on the element.

* \n
@sinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (Int, ULong) -> Boolean): C

\n
returns the result of predicate evaluation on the element.

*
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends all elements not matching the given [predicate] to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

/**
 * Appends elements matching the given [predicate] to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0) return emptyList()
    val list = ArrayList<UInt>(size)
    for (index in indices) {
        list.add(get(index))
    }
    return list
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.slice(indices: IntRange): List<ULong> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.slice(indices: IntRange): List<UByte> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: IntRange): List<UShort> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.slice(indices: IntRange): List<UInt> {
    if (indices.isEmpty()) return listOf()
    return copyOfRange(indices.start, indices.endInclusive + 1).asList()
}
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
/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.slice(indices: Iterable<Int>): List<UByte> {
    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}

/**
 * Returns a list containing elements at specified [indices].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.sliceArray(indices: Collection<Int>, range: IntRange): List<UByte> {
    val list = ArrayList<UByte>(range.endInclusive - range.start + 1) \n    for (index in range) { \n        list.add(get(index)) \n    } \n    return list \n}

/**
 * Returns an array containing elements at indices in the specified [indices] range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sliceArray(indices: IntRange): UByteArray {
    val list = ArrayList<UByte>(range.endInclusive - range.start + 1) \n    for (index in range) { \n        list.add(get(index)) \n    } \n    return UByteArray(list) \n}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.\n *
 * @throws IllegalArgumentEx
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.take(n: Int): List<UInt> {
    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<UInt>(n) \n    for (item in this) { \n        list.add(item) \n        if (++count == n) \n            break \n    } \n    return list \n}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.\n *
 * @throws IllegalArgumentEx
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.take(n: Int): List<ULong> {
    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<ULong>(n) \n    for (item in this) { \n        list.add(item) \n        if (++count == n) \n            break \n    } \n    return list \n}

/**
 * Returns a list containing first [n] elements.
 * @throws IllegalArgumentException if [n] is negative.\n *
 * @throws IllegalArgumentEx
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.take(n: Int): List<UByte> {
    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<UByte>(n) \n    for (item in this) { \n        list.add(item) \n        if (++count == n) \n            break \n    } \n    return list \n}
a list containing first \([n]\) elements.\n
@throws IllegalArgumentException if \([n]\) is negative.\n
@sample

```kotlin
@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])
    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.\n
@throws IllegalArgumentException if \([n]\) is negative.\n
@sample

```kotlin
@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.\n
@throws IllegalArgumentException if \([n]\) is negative.\n
@sample

```kotlin
@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.\n
@throws IllegalArgumentException if \([n]\) is negative.\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.takeLast(n: Int): List<UByte> {
    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<UByte>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last \([n]\) elements.\n
@throws IllegalArgumentException if \([n]\) is negative.\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLast(n: Int): List<UShort> {
    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<UShort>(n)
    for (index in size - n until size)
        list.add(this[index])
    return list
}

/**
 * Returns a list containing last elements satisfying the given \([predicate]\).\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given \([predicate]\).\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given \([predicate]\).\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

/**
 * Returns a list containing last elements satisfying the given \([predicate]\).\n
@sample

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)
        }
    }
    return toList()
}

```

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Returns a list containing first elements satisfying the given [predicate].

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(): List<UByte> {
    if (isEmpty()) return emptyList()<br />
    val list = toMutableList()<br />
    list.reverse()<br />
    return list
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverseArray(): 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 ULonArray.reverseArray(): 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 UIntArray.reverseArray(): 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 UShortArray.reverseArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

/**
 * Returns an array with elements of this array in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reverseArray(): UShortArray {
    return UShortArray(storage.reversedArray())
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.reversed(): List<UInt> {
    if (isEmpty()) return emptyList()<br />
    val list = toMutableList()<br />
    list.reverse()<br />
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.reversed(): List<ULong> {
    if (isEmpty()) return emptyList()<br />
    val list = toMutableList()<br />
    list.reverse()<br />
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.reversed(): List<UByte> {
    if (isEmpty()) return emptyList()<br />
    val list = toMutableList()<br />
    list.reverse()<br />
    return list
}

/**
 * Returns a list with elements in reversed order.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.reversed(): List<UShort> {
    if (isEmpty()) return emptyList()<br />
    val list = toMutableList()<br />
    list.reverse()<br />
    return list
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reverse(): Unit {
    storage.reverse()<br />
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reverse(): Unit {
    storage.reverse()<br />
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reverse(): Unit {
    storage.reverse()<br />
}

/**
 * Reverses elements in the array in-place.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reverse(): Unit {
    storage.reverse()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULonArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Takes the last element in the array that satisfies the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {
    for (index in lastIndex downTo 0) {
        if (!predicate(this[index])) {
            return drop(index + 1)<br />
        }
    }
    return toList()<br />
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {
    val list = ArrayList<UByte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {
    val list = ArrayList<UShort>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {
    val list = ArrayList<ULong>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {
    val list = ArrayList<UInt>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {
    val list = ArrayList<ULong>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {
    val list = ArrayList<UByte>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}

/**
 * Returns a list containing first elements satisfying the given [predicate].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {
    val list = ArrayList<UShort>()
    for (item in this) {
        if (!predicate(item))
            break
        list.add(item)
    }
    return list
}
UBByteArray.reversedArray(): UBByteArray
\n\n    return UBByteArray(storage.reversedArray())

*@SinceKotlin("1.3")*\n@ExperimentalUnsignedTypes\n\ninline fun UByteArray.reversedArray(): UByteArray
\n\n    return UByteArray(storage.reversedArray())

*@SinceKotlin("1.3")*\n@ExperimentalUnsignedTypes\n\npublic fun UByteArray.reversedArray(): UByteArray
\n\n    return UByteArray(storage.reversedArray())

*@SinceKotlin("1.3")*\n@ExperimentalUnsignedTypes\n\nfun UIntArray.sortDescending(): Unit
\n\n    if (size > 1)
\n        sort()
\n        reverse()

*@SinceKotlin("1.3")*\n@ExperimentalUnsignedTypes\n\nfun ULongArray.sortDescending(): Unit
\n\n    if (size > 1)
\n        sort()
\n        reverse()

*@SinceKotlin("1.3")*\n@ExperimentalUnsignedTypes\n\nfun UBByteArray.sortDescending(): Unit
\n\n    if (size > 1)
\n        sort()
\n        reverse()
means that equal elements preserve their order relative to each other after sorting.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sortedDescending(): List<UInt> {
    return copyOf().apply { sort() }.reversed() /* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sortedDescending(): List<ULong> {
    return copyOf().apply { sort() }.reversed() /* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting. */
}

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.asByteArray(): ByteArray {
    return storage /* Returns an array of type [ByteArray], which is a view 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.asIntArray(): IntArray {
    return storage /* Returns an array of type [IntArray], which is a view 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.asUByteArray(): UByteArray {
    return UByteArray(this) /* Returns an array of type [UByteArray], which is a view 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 IntArray.asUIntArray(): UIntArray {
    return UIntArray(this) /* Returns an array of type [UIntArray], which is a view 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 ULongArray.asULongArray(): ULongArray {
    return ULongArray(this) /* Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation of the corresponding element of this array. */
}
```

---

**Open Source Used In UCM Cloud Analyzer Service 1.0 1995**
ShortArray.asUShortArray():

```java
UShortArray asUShortArray():
    return UShortArray(this)
```

*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.*

**UShortArray.equals(other: UShortArray):**

```java
public boolean equals(UShortArray other)
```

*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.*

**UShortArray.contentEquals(other: UShortArray):**

```java
public boolean contentEquals(UShortArray other)
```

*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.*

**UShortArray.contentHashCode():**

```java
public int contentHashCode()
```

*Returns a hash code based on the contents of this array as if it is [List].*

**UShortArray.copyInto(destination: UShortArray, destinationOffset: Int, startIndex: Int, endIndex: Int):**

```java
public void copyInto(UShortArray destination, int destinationOffset, int startIndex, int endIndex)
```

*Copies this array or its subrange into the [destination] array and returns that array.*

*Throws `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].

*Returns the [destination] array.*

**UShortArray.joinToString(delimiter: String, open: String, close: String):**

```java
public String joinToString(String delimiter, String open, String close)
```

*Returns a string representation of the contents of this array as if it is [List].

*Allocates a new instance of [List] and populates it with all of the values of this array.*

*Delegates the creation of the [List] to a factory method,* i.e. the constructor of the [List].

*Uses the passed open and close strings as delimiters and opening and closing delimiters.*

*Uses the passed delimiter as a separator between list elements.*

*Uses the default factory method `List::of` to create a new instance of `[List]`.*

*Returns a new instance of [List] that contains all of the values of this array.*
destination\n\n/**
 * 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 over laps 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`.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray
{
    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 over laps 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`.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray
{
    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 over laps 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`.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UShortArray
{
    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.copyOf(): UIntArray
{
    return UIntArray(storage.copyOf())
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.copyOf(): ULongArray
{
    return ULongArray(storage.copyOf())
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.copyOf(): UByteArray
{
    return UByteArray(storage.copyOf())
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.copyOf(): UShortArray
{
    return UShortArray(storage.copyOf())
}
UShortArray.copyOf(): UShortArray {
    return UShortArray(storage.copyOf())
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UIntArray.copyOf(newSize: Int): UIntArray {
    return UIntArray(storage.copyOf(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

ULongArray.copyOf(newSize: Int): ULongArray {
    return ULongArray(storage.copyOf(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UByteArray.copyOf(newSize: Int): UByteArray {
    return UByteArray(storage.copyOf(newSize))
}

/**
 * Returns new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UShortArray.copyOf(newSize: Int): UShortArray {
    return UShortArray(storage.copyOf(newSize))
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * - @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * - @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {
    return UIntArray(storage.copyOfRange(fromIndex, toIndex))
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * - @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * - @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {
    return ULongArray(storage.copyOfRange(fromIndex, toIndex))
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * - @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * - @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {
    return UByteArray(storage.copyOfRange(fromIndex, toIndex))
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * - @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * - @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {
    return UShortArray(storage.copyOfRange(fromIndex, toIndex))
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * - @param fromIndex the start of the range (inclusive), must be in `0..array.size`
 * - @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun

 Interceptable

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("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toInt(), fromIndex, toIndex)
}

/**
 * Fills this array or its subrange with the specified [element] value.
 * 
 * @param fromIndex the start of the range (inclusive), 0 by default.
 * @param toIndex the end of the range (exclusive), size of this array by default.
 * 
 * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.
 * @throws IllegalArgumentExcep
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UShortArray.plus(element: UShort): UShortArray {
    return UShortArray(storage + element.toShort())
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toInt()
    return UIntArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {
    var index = size
    val result = storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toLong()
    return ULongArray(result)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {
    return UIntArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {
    return ULongArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    return UByteArray(storage + elements.storage)
}

/**
 * Returns an array containing all elements of the original array and then all elements of the given [elements] array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {
    return UShortArray(storage + elements.storage)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * Sorts the array in-place.
 * 
 * @sample samples.collections.Arrays.Sorting.sortArray
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.sort(): Unit {
    if (size > 1) sortArray(this)
}

/**
 * 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 IntArray(storage.toIntArray())
}

/**
 * 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 ULongArray.toLongArray(): ULongArray {
    return ULongArray(storage.toLongArray())
}

/**
 * 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.toUByteArray(): UByteArray {
    return UByteArray(storage.toUByteArray())
}

/**
 * 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 UShortArray.toUShortArray(): UShortArray {
    return UShortArray(storage.toUShortArray())
}

/**
 * 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.toByteArrayList(): ByteArrayList {
    return ByteArrayList(storage.toByteArrayList())
}
@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 return storage.copyOfOf()\n    *\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UIntArray.toTypedArray(): Array<UInt> {
    return Array(size) { index -> this[index] }\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UByteArray.toTypedArray(): Array<UByte> {
    return Array(size) { index -> this[index] }\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun UShortArray.toTypedArray(): Array<UShort> {
    return Array(size) { index -> this[index] }\n
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public fun <R>
UIntArray.flatMap(transform: (UInt) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R>
    ULongArray.flatMap(transform: (ULong) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R>
    UByteArray.flatMap(transform: (UByte) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R>
    UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {
    return flatMapTo(ArrayList<R>(), transform)
}

/**
 * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R, C :
    MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> 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("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R, C :
    MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> 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("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R, C :
    MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> 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("1.3")
@ExperimentalUnsignedTypes
@public inline fun <R, C :
    MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <K>
    UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@public inline fun <K>
    ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {
    return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), 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
*@

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K): List<K> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector).values
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K): List<K> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector).values
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): List<V> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform).values
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): List<V> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform).values
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): List<V> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform).values
}
```

The returned map preserves the entry iteration order of the keys produced from the original array.

```
@sample
samples.collections.Collections.Transformations.groupBy
*@

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, MutableList<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, MutableList<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, MutableList<UInt>> {
    return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, MutableList<UByte>> {
    return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)
}

@SinceKotlin("1.3.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, MutableList<UShort>> {
    return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)
}
```
for (element in this) {
    val key = keySelector(element)
    val list = destination.getOrPut(key) {
        ArrayList<UInt>()
    }
    list.add(element)
}
return destination
}

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<UInt>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<UByte>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<UShort>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<ULong>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<Byte>> UByteArray.groupByTo(destination: M, keySelector: (Byte) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<Byte>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<Char>> UCharArray.groupByTo(destination: M, keySelector: (Char) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<Char>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<Short>> UShortArray.groupByTo(destination: M, keySelector: (Short) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<Short>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<Long>> ULongArray.groupByTo(destination: M, keySelector: (Long) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<Long>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableMap<K, MutableList<Int>> UIntArray.groupByTo(destination: M, keySelector: (Int) -> K):
    M {
        for (element in this) {
            val key = keySelector(element)
            val list = destination.getOrPut(key) {
                ArrayList<Int>()
            }
            list.add(element)
        }
        return destination
    }

/**
 * Groups elements of the original array 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <K, M : MutableList<Byte>> UByteArray

original array \* 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

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<K, V, M : \MutableMap\<K, \MutableList\<V>>> UShortArray.groupByTo\((destination: \M, \keySelector: \(\text{UShort}) \to \K, \valueTransform: (\text{UShort}) \to \V)\): \M \{ \n \for \(\text{element in this}\) \n \val key = \keySelector\(\text{element}\) \n \val list = destination.getOrPut\(\key\) \{ \Array\List\<V\>() \} \} \n \list.add\(\valueTransform\(\text{element}\)\) \n \} \n \return destination\n
* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> ULongArray.map\((transform: (\text{ULong}) \to \R)\): List\<R> \{ \n \return mapTo\((Array\List\<R\>()\(\text{size}\)), \transform)\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

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UIntArray.map\((transform: (\text{UInt}) \to \R)\): List\<R> \{ \n \return mapTo\((Array\List\<R\>()\(\text{size}\)), \transform)\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

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UByteArray.map\((transform: (\text{UByte}) \to \R)\): List\<R> \{ \n \return mapTo\((Array\List\<R\>()\(\text{size}\)), \transform)\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

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UShortArray.map\((transform: (\text{UShort}) \to \R)\): List\<R> \{ \n \return mapTo\((Array\List\<R\>()\(\text{size}\)), \transform)\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

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UShortArray.mapIndexed\((transform: (\text{Index, UShort}) \to \R)\): List\<R> \{ \n \return mapIndexedTo\((Array\List\<R\>()\(\text{size}\)), \transform)\n\} \n \* 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.

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> ULongArray.mapIndexed\((transform: (\text{Index, ULong}) \to \R)\): List\<R> \{ \n \return mapIndexedTo\((Array\List\<R\>()\(\text{size}\)), \transform)\n\} \n \* 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.

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UByteArray.mapIndexed\((transform: (\text{Index, UByte}) \to \R)\): List\<R> \{ \n \return mapIndexedTo\((Array\List\<R\>()\(\text{size}\)), \transform)\n\} \n \* 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.

* \@SinceKotlin("1.3") \@ExperimentalUnsignedTypes \@in\@kotlin.internal.InlineOnly\@n\@public inline fun \<R> UShortArray.mapIndexed\((transform: (\text{Index, UShort}) \to \R)\): List\<R> \{ \n \return mapIndexedTo\((Array\List\<R\>()\(\text{size}\)), \transform)\n\} \n \* 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.
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element and its index in the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {
    var index = 0
    for (item in this)
        destination.add(transform(index++, item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {
    for (item in this)
        destination.add(transform(item))
    return destination
}

/**
 * Applies the given [transform] function to each element of the original array
 * and appends the results to the given [destination].
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {
    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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}
Iterable<IndexedValue<UShort>> {
    return IndexingIterable { iterator() }
}

/**
 * Returns `true` if all elements match the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (!predicate(element)) return false
    return true
}

/**
 * Returns `true` if all elements match the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.all
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.all(predicate: (UShort) -> 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
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns `true` if array has at least one element.
 * 
 * @sample samples.collections.Collections.Aggregates.any
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.any(): Boolean {
    return storage.any()
}

/**
 * Returns the number of elements matching the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given 
 * [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.count
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}
public inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given
 * predicate.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Returns the number of elements matching the given
 * predicate.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {
    var count = 0
    for (element in this) if (predicate(element)) ++count
    return count
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {
    var accumulator = initial
    for (element in this) accumulator = operation(accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}

/**
 * Accumulates value starting with [initial] and
 * applying [operation] from left to right to current accumulator value and each element.
 */

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {
    var index = 0
    var accumulator = initial
    for (element in this) accumulator = operation(index, accumulator, element)
    return accumulator
}
next accumulator value.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    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 right to left to
each element and current accumulator value.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    for (index in this) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left to
each element and current accumulator value.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    for (index in this) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

/**
 * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element with its index in the original array and current accumulator value.
 * @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    for (index in this) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}
```

The code snippet above demonstrates how to use the `foldIndexed` and `foldRight` functions to accumulate values from right to left in an array, handling unsigned values. The `foldIndexed` function accumulates values starting with an initial value and applying an operation to each element and the current accumulator value, while `foldRight` accumulates values starting with an initial value and applying an operation to each element and the current accumulator value. Both functions are inline and can be used to efficiently process arrays of unsigned types in Kotlin.
current accumulator value, and calculates the next accumulator value:

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {
    var index = lastIndex
    var accumulator = initial
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
        --index
    }
    return accumulator
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.forEach(action: (ULong) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.forEach(action: (UByte) -> Unit): Unit {
    for (element in this) action(element)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.max(): UInt? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.max(): ULong? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.max(): UByte? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}

/**
 * Returns the largest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.max(): UShort? {
    if (isEmpty())
        return null
    var max = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (max < e) max = e
    }
    return max
}
```

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`null` if there are no elements.

```kotlin
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt?
    if (isEmpty()) return null
    var maxElem = this[0]
    var 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
```

```kotlin
/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong?
    if (isEmpty()) return null
    var maxElem = this[0]
    var 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
```

```kotlin
/**
 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte?
    if (isEmpty()) return null
    var maxElem = this[0]
    var 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
```

```kotlin
/**
 * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.maxWith(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
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntArray.min(): UInt?
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return min
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongArray.min(): ULong?
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return min
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.min(): UByte?
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return min
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.min(): UShort?
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return min
```

```kotlin
/**
 * Returns the smallest element or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.min(): UShort?
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(max, e) < 0) max = e
    }
    return min
```
(isEmpty()) return null
var min = this[0]
for (i in 1..lastIndex) {
    val e = this[i]
    if (min > e) min = e
}
return min

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.min(): UByte? {
    (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("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.min(): UShort? {
    (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 yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {
    (isEmpty()) return null
    var minElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return minElem
    var minValue = selector(minElem)
    for (i in 1..lastIndex) {
        val e = this[i]
        val v = selector(e)
        if (minValue > v) {
            minElem = e
            minValue = v
        }
    }
    return minElem
}

/**
 * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.minBy(comparator: Comparator<in ULong>): ULong? {
    (isEmpty()) return null
    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 yielding the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {
    (isEmpty()) return null
    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 yielding the smallest value according to the provided [comparator] or `null` if there are no elements.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {
    (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}
public fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {
    if (isEmpty()) return null
    var min = this[0]
    for (i in 1..lastIndex) {
        val e = this[i]
        if (comparator.compare(min, e) > 0) min = e
    }
    return min
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public inline fun UIntArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public inline fun ULongArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if the array has no elements.
 * 
 * @sample samples.collections.Collections.Aggregates.none
 */
public inline fun UByteArray.none(): Boolean {
    return isEmpty()
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Returns `true` if no elements match the given [predicate].
 * 
 * @sample samples.collections.Collections.Aggregates.noneWithPredicate
 */
public inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {
    for (element in this) if (predicate(element)) return false
    return true
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithOperation
 */
public inline fun UIntArray.reduce(operation: (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(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.
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithOperation
 */
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.
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithOperation
 */
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.
 * 
 * @sample samples.collections.Collections.Aggregates.anyWithOperation
 */
    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.

```kotlin
    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.

```kotlin
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.

```kotlin
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.

```kotlin
public inline fun UByteArray.reduceIndexed(operation: (index: Int, 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(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.

```kotlin
    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 last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}
```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```kotlin
public inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(accumulator, get(index--))
    }
    return accumulator
}
```
get(index--) \n  while (index >= 0) \n      \n      accumulator = operation(get(index--), accumulator) \n  \n  return accumulator
} \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte \n  \n  \n  \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort \n  \n  \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt \n  \n  \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong \n  \n  \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte \n  \n  \n
/**
 * Accumulates value starting with last element and applying [operation] from right to left
 * to each element and current accumulator value.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort \n  \n  \n
/**
 * Returns the sum of all values produced by [selector] function applied to each element in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public inline fun

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UIntArray.sumBy(selector: (UInt) -> UInt): UInt {
    var sum: UInt = 0u
    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("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.sumBy(selector: (UInt) -> Double): Double {
    var sum: Double = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

/**
 * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.
 * The returned list has length of the shortest collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```kotlin
@sample samples.collections.Iterables.Operations.zipIterableWithTransform

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UIntArray.zip(other: Array<R>, transform: (a: UInt, b: R) -> V): List<V> {
    val size = minOf(this.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
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
ULongArray.zip(other: Array<R>, transform: (a: ULong, b: R) -> V): List<V> {
    val size = minOf(this.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
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UByteArray.zip(other: Array<R>, transform: (a: UByte, b: R) -> V): List<V> {
    val size = minOf(this.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
 * @sample
 * samples.collections.Iterables.Operations.zipIterableWithTransform

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R, V>
UShortArray.zip(other: Array<R>, transform: (a: UShort, b: R) -> V): List<V> {
    val size = minOf(this.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
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * sample
 * @sample
 * samples.collections.Iterables.Operations.zipIterable

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UIntArray.zip(other: Collection<R>): List<Pair<UInt, 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
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * sample
 * @sample
 * samples.collections.Iterables.Operations.zipIterable

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> ULongArray.zip(other: Collection<R>): List<Pair<ULong, 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
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * sample
 * @sample
 * samples.collections.Iterables.Operations.zipIterable

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UByteArray.zip(other: Collection<R>): List<Pair<UByte, 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
 * using the provided [transform] function applied to each pair of elements.
 * The returned list has length of the shortest collection.
 * sample
 * @sample
 * samples.collections.Iterables.Operations.zipIterable

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public infix fun <R> UShortArray.zip(other: Collection<R>): List<Pair<UShort, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}
```

if (i >= arraySize) break
    list.add(transform(this[i++], element))
}

/**
 * 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.zipIf
*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * 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.zipIf
*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}

/**
 * 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.zipIf
*An@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly@public inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {
    var i = 0
    for (element in other) {
        if (i >= arraySize) break
        list.add(transform(this[i++], element))
    }
    return list
}
samples.collections.Iterables.Operations.zipIterableWithTransform

```kotlin
@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
```
all of the elements of this collection.

```kotlin
/*
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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.
 * */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UComparisonsKt")

package 
kotlin.comparisons

// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib

import kotlin.random.*

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UInt, b: UInt): UInt {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: ULong, b: ULong): ULong {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UByte, b: UByte): UByte {
    return if (a >= b) a else b
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun maxOf(a: UShort, b: UShort): UShort {
    return if (a >= b) a else b
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the greater of three values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
    return maxOf(a, maxOf(b, c))
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UInt, b: UInt): UInt {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: ULong, b: ULong): ULong {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UByte, b: UByte): UByte {
    return if (a <= b) a else b
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun minOf(a: UShort, b: UShort): UShort {
    return if (a <= b) a else b
}
```
//
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt from:
// See: https://github.com/JetBrains/kotlin/tree/master/stdlib
//

import kotlin.random.*

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntRange.random(): UInt {
    return random(Random)
}

/**
 * Returns a random element from this range.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongRange.random(): ULong {
    return random(Random)
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun UIntRange.random(random: Random): UInt {
    try {
        return random.nextUInt(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Returns a random element from this range using the specified source of randomness.
 * 
 * @throws IllegalArgumentException if this range is empty.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun ULongRange.random(random: Random): ULong {
    try {
        return random.nextULong(this)
    } catch(e: IllegalArgumentException) {
        throw NoSuchElementException(e.message)
    }
}

/**
 * Checks if the specified value belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UIntRange.contains(value: UByte): Boolean {
    return contains(value.toUInt())
}

/**
 * Checks if the specified value belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongRange.contains(value: UByte): Boolean {
    return contains(value.toULong())
}

/**
 * Checks if the specified value belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun UIntRange.contains(element: UInt?): Boolean {
    return contains(element)
}

/**
 * Checks if the specified value belongs to this range.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public operator fun ULongRange.contains(element: ULong?): Boolean {
    return contains(element)
}

*/

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```kotlin
// Since Kotlin 1.3
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
public operator fun UIntRange.contains(value: UShort): Boolean {
    return contains(value.toUInt())
}

/**
 * Checks if the specified [value] belongs to this range.
 */
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
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.
 */
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
public operator fun UByte.downTo(to: UByte): UIntProgression {
    return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)
}

/**
 * Returns a progression that goes over the same range in the opposite direction with the same step.
 */
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
public fun UIntProgression.reversed(): UIntProgression {
    return UIntProgression.fromClosedRange(last, first, -step)
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 */
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
public infix fun UByte.until(to: UByte): UIntRange {
    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY
    return this.toUInt() .. (to - 1u).toUInt()
}

/**
 * Returns a range from this value up to but excluding the specified [to] value.
 */
@ExperimentalUnsignedTypes
@SinceKotlin("1.3")
public infix fun ULong.until(to: ULong): ULongRange {
    if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY
    return this .. (to - 1u).toULong()
}
```

---

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this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.

* * * @sample

samples.comparisons.ComparableOps.coerceAtLeastUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UInt.coerceAtLeast(minimumValue: UInt): UInt {
* * *     return if (this < minimumValue) minimumValue else this
* * *      ** * * * * * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtLeastUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun ULong.coerceAtLeast(minimumValue: ULong): ULong {
* * *     return if (this < minimumValue) minimumValue else this
* * *      ** * * * * * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtLeastUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UShort.coerceAtLeast(minimumValue: UShort): UShort {
* * *     return if (this < minimumValue) minimumValue else this
* * *      ** * * * * * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtLeastUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UByte.coerceAtLeast(minimumValue: UByte): UByte {
* * *     return if (this < minimumValue) minimumValue else this
* * *      ** * * * * * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtLeastUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UInt.coerceAtMost(maximumValue: UInt): UInt {
* * *     return if (this > maximumValue) maximumValue else this
* * *      ** * * * * * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtMostUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun ULong.coerceAtMost(maximumValue: ULong): ULong {
* * *     return if (this > maximumValue) maximumValue else this
* * *      ** * * * * * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtMostUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UShort.coerceAtMost(maximumValue: UShort): UShort {
* * *     return if (this > maximumValue) maximumValue else this
* * *      ** * * * * * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtMostUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UByte.coerceAtMost(maximumValue: UByte): UByte {
* * *     return if (this > maximumValue) maximumValue else this
* * *      ** * * * * * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceAtMostUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UShort.coerceAtMost(maximumValue: UShort): UShort {
* * *     return if (this > maximumValue) maximumValue else this
* * *      ** * * * * * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceInUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt) {
* * *     if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
* * *      ** * * * * * @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]
* * *      ** * * * * * samples.comparisons.ComparableOps.coerceInUnsigned

* * * @SinceKotlin("1.3")
* * * @ExperimentalUnsignedTypes
* * * @public fun UInt.coerceIn(minimumValue: Uint, maximumValue: Uint): Uint {
* * *     if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")
* * *      ** * * * * * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
if this value is greater than `[maximumValue]`.

```kotlin
@sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@PublicInPublicApi
public fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {
    if (minimumValue > maximumValue) throw
    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
}

@sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublicInPublicApi
public fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {
    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
}

@sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublicInPublicApi
public fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {
    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
}

@sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublicInPublicApi
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
    }
}

@sample samples.comparisons.ComparableOps.coerceInUnsigned

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@PublicInPublicApi
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
    }
}
```

---

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Sequence<ULong>.sum(): ULong { var sum: ULong = 0uL for (element in this) { sum += element
} return sum
} /* The operation is _terminal_. */

Sequence<UByte>.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("1.3")
@ExperimentalUnsignedTypes
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("1.3")
@ExperimentalUnsignedTypes
public fun Sequence<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this) {
        sum += element
    }
    return sum
}

/*
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 *
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 * distributed under the License is distributed on an "AS IS"
 * BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 */

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.
 * The iterator is covariant on its element type.
 * @param T the type of element being iterated over.
 * @param E the type of element being iterated over.
 */
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.
 * The mutable iterator is invariant on its element type.
 * @param T the type of element being iterated over.
 * @param E the type of element being iterated over.
 */
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.
 * The collection is covariant on its element type.
 * @param E the type of elements contained in the collection.
 */
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
    /**
     * Adds all of the elements of the specified collection to
     * this collection.
     */
    public fun addAll(elements: Collection<E>): Boolean

    /**
     * Removes all of this collection's elements that are also contained in the specified collection.
     */
    public fun removeAll(elements: Collection<E>): Boolean

    /**
     * Retains only the elements in this collection that are contained in the specified collection.
     */
    public fun retainAll(elements: Collection<E>): Boolean
}

/**
 * A generic collection of elements
 * that supports adding and removing elements.
 * The mutable collection is invariant on its type parameters.
 * @param E the type of elements contained in the collection.
 */
public interface MutableCollection<E> : Collection<E>,
    MutableIterable<E> {
    // Query Operations
    /**
     * Adds the specified element to the collection.
     */
    public fun add(element: E): Boolean

    /**
     * Removes a single instance of the
     * specified element from this collection, if it is present.
     */
    public fun remove(element: E): Boolean

    // Bulk Modification Operations
    /**
     * Adds all of the specified elements to the collection.
     */
    public fun addAll(elements: Collection<E>): Boolean

    /**
     * Removes all of the collection's elements that are also contained in the specified collection.
     */
    public fun removeAll(elements: Collection<E>): Boolean

    /**
     * Retains only the elements in this collection that are contained in the specified collection.
     */
    public fun retainAll(elements: Collection<E>);
/**
 * A generic unordered collection of elements that does not support duplicate
 * contained in the set. The mutable set is invariant on its element type.
 * @param E the type of elements contained in the set. The set is covariant on its element type.
 */
public interface Set<out E> : Collection<E> {
    // Query Operations
    override fun iterator(): Iterator<E>

    // Bulk Operations
    override fun containsAll(elements: Collection<E>): Boolean
    override fun retainAll(elements: Collection<E>): Boolean

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // View
    override fun subList(fromIndex: Int, toIndex: Int): List<E>

    // List Iterators
    override fun listIterator(): ListIterator<E>

    // Search Operations
    /** *
     * Returns the index of the first occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun indexOf(element: E): Int

    /** *
     * Returns the index of the last occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun lastIndexOf(element: E): Int

    // List Iterators
    /** *
     * Returns a list iterator over the elements in this list (in proper sequence),
     * starting at the specified [index].
     * @return the element previously at the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun listIterator(index: Int): ListIterator<E>

    // Search Operations
    /** *
     * Returns the index of the first occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // Bulk Modification Operations
    /** *
     * Adds the specified element to the end of this list.
     * @return `true` if the list was changed as the result of this operation.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun add(element: E): Boolean

    override fun addAll(elements: Collection<E>): Boolean

    /** *
     * Inserts all of the elements of the specified collection to the end of this list.
     * The elements are appended in the order they appear in the
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // View
    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>

    // List Iterators
    /** *
     * Returns a list iterator over the elements in this list (in proper sequence),
     * starting at the specified [index].
     * @return the element previously at the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun listIterator(index: Int): MutableListIterator<E>

    // Search Operations
    /** *
     * Returns the index of the first occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // Bulk Modification Operations
    /** *
     * Adds the specified element to the end of this list.
     * @return `true` because the list is always
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun add(element: E): Boolean

    override fun addAll(elements: Collection<E>): Boolean

    /** *
     * Inserts all of the elements of the specified collection to the end of this list.
     * The elements are appended in the order they appear in the
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // View
    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>

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     * Returns the index of the first occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // Bulk Modification Operations
    /** *
     * Adds the specified element to the end of this list.
     * @return `true` if the list was changed as the result of this operation.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
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    override fun add(element: E): Boolean

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     * The elements are appended in the order they appear in the
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
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    public fun get(index: Int): E

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    // Search Operations
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     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // Bulk Modification Operations
    /** *
     * Adds the specified element to the end of this list.
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    override fun add(element: E): Boolean

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    /** *
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     * The elements are appended in the order they appear in the
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // View
    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>

    // List Iterators
    /** *
     * Returns a list iterator over the elements in this list (in proper sequence),
     * starting at the specified [index].
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    // Search Operations
    /** *
     * Returns the index of the first occurrence of the specified
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // Bulk Modification Operations
    /** *
     * Adds the specified element to the end of this list.
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    /** *
     * Inserts all of the elements of the specified collection to the end of this list.
     * The elements are appended in the order they appear in the
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

    // Positional Access Operations
    /** *
     * Returns the element at the specified index in the list.
     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    public fun get(index: Int): E

    // View
    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>

    // List Iterators
    /** *
     * Returns a list iterator over the elements in this list (in proper sequence),
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    // Search Operations
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    // Bulk Modification Operations
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    /** *
     * Inserts all of the elements of the specified collection to the end of this list.
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     * @param E the type of elements contained in the list. The list is covariant on its element type.
     */
    override fun addAll(index: Int, elements: Collection<E>): Boolean

    override fun removeAt(index: Int): E

}
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```java
/**
 * A class for generating a sequence of characters.
 */
internal class CharProgression {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}

/**
 * An iterator over a progression of values of type `Char`.
 */
internal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}
```

```java
/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.collections

/**
 * An iterator over a sequence of values of type `Byte`. */
public abstract class ByteIterator : Iterator<Byte> {
    override fun hasNext() = nextBoolean()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextByte(): Byte
}

/**
 * An iterator over a sequence of values of type `Int`. */
public abstract class IntIterator : Iterator<Int> {
    override fun hasNext() = nextBoolean()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextInt(): Int
}

/**
 * An iterator over a sequence of values of type `Long`. */
public abstract class LongIterator : Iterator<Long> {
    override fun hasNext() = nextBoolean()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextLong(): Long
}

/**
 * An iterator over a sequence of values of type `Short`. */
public abstract class ShortIterator : Iterator<Short> {
    override fun hasNext() = nextBoolean()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextShort(): Short
}
```

```java
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.collections

/**
 * An iterator over a sequence of values of type `Double`. */
public abstract class DoubleIterator : Iterator<Double> {
    override final fun next() = nextDouble()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextDouble(): Double
}

/**
 * An iterator over a sequence of values of type `Float`. */
public abstract class FloatIterator : Iterator<Float> {
    override final fun next() = nextFloat()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextFloat(): Float
}

/**
 * An iterator over a sequence of values of type `Boolean`. */
public abstract class BooleanIterator : Iterator<Boolean> {
    override final fun next() = nextBoolean()

    /** Returns the next value in the sequence without boxing. */
    public abstract fun nextBoolean(): Boolean
}
```

```java
/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.collections

/**
 * A class for generating a sequence of numbers.
 */
internal class Progression {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}

/**
 * An iterator over a sequence of values of type `Char`.
 */
internal class CharProgression {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextChar(): Char {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}
```

```java
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    override fun hasNext(): Boolean = hasNext

    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}
```

```java
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.collections

/**
 * A class for generating a sequence of numbers.
 */
internal class Progression {
    private val finalElement = last
    private var hasNext: Boolean = if (step > 0) first <= last else first >= last
    private var next = if (hasNext) first else finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextLong(): Long {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        }
        else {
            next += step
        }
        return value
    }
}
```

```java
/*
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 */

// Auto-generated file. DO NOT EDIT!

package kotlin.ranges

import kotlin.collections
Creates LongProgression 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: Long, rangeEnd: Long, step: Long):
  LongProgression = LongProgression(rangeStart, rangeEnd, step)

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Represents a range of values (for example, numbers or characters).

See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.

`ClosedRange<T>`

```kotlin
fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long):
    LongProgression = LongProgression(rangeStart, rangeEnd, step)
```

`package kotlin.ranges`

```kotlin
interface ClosedRange<T: Comparable<T>> {
    val start: T
    val endInclusive: T

    operator fun contains(value: T): Boolean = value >= start && value <= endInclusive
    fun isEmpty(): Boolean = start > endInclusive
}
```

`package kotlin.annotation`

```kotlin
@Target(AnnotationTarget.ANNOTATION_CLASS)
@MustBeDocumented
@SinceKotlin("1.1")
annotation class Annotation(allowedTargets: AnnotationTarget...)
```
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package kotlin.internal

private fun mod(a: Int, b: Int): Int {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun mod(a: Long, b: Long): Long {
    val mod = a % b
    return if (mod >= 0) mod else mod + b
}

private fun differenceModulo(a: Int, b: Int, c: Int): Int {
    return mod(mod(a, c) - mod(b, c), c)
}

private fun differenceModulo(a: Long, b: Long, c: Long): Long {
    return mod(mod(a, c) - mod(b, c), c)
}

/**
 * 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 \(step\).\n
@suppress
 */
@PublishedApi
internal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}
type usage.

* For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type Boolean

/**
 * Represents a type projection. Type projection is usually the argument to another type in a
 * member function declaration, plus nullability. 
 * such as an instance, an extension receiver
 * or a value parameter.
 */

@SinceKotlin("1.1")
public val isMarkedNullable: Boolean

/**
 * `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy], or `false` otherwise.
 */

A parameter is optional in any of the two
cases:

1. The default value is provided at the declaration of this parameter, `null` * 2. The parameter is declared
   in a member function and one of the corresponding parameters in the super functions is optional.

 */

public interface KType : KAnnotatedElement {
    /**
     * The declaration of
     * the classifier used in this type.
     */

    @SinceKotlin("1.1")
    public val classifier: KClassifier?

    /**
     * Type
     */

    public interface KType : KAnnotatedElement {
        /**
         * Kind of this parameter.
         */

        /** Ordinary named
         * value parameter.
         */

        /** Extension
         * parameter or a value parameter.
         */
    }

    /**
     * `true` if this type is based on an inner class, the
     * returned list contains the type arguments provided for the innermost class first,
     * then its outer class, and so
     * on.
     */

    @SinceKotlin("1.1")
    public val arguments: List<KTypeProjection>

    /*
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 *
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 * 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.reflect

/**
 * Represents a
 * type.
 */

public interface KType : KAnnotatedElement {
    /**
     * `true` if this parameter is `vararg`.
     */

    public enum class Kind {

        INSTANCE,

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        INSTANCE,
represented by the class `Number`. Type projection is either the star projection, or an entity consisting of a specific type plus optional variance. The use-site variance specified in the projection, or `null` if this is a star projection. public val varia: KVariance?

For example, in the type `KClass<*>`, `*` is the star projection. See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections) for more information.

Creates an invariant projection of a given type. Invariant projection is just the type itself, without any use-site variance modifiers applied to it. For example, in the type `Set<String>`.

```
public fun invariant(type: KType): KTypeProjection =
                KTypeProjection(KVariance.INVARIANT, type)
```

```
public fun contravariant(type: KType): KTypeProjection =
                KTypeProjection(KVariance.IN, type)
```

**

```
public fun covariant(type: KType): KTypeProjection =
                KTypeProjection(KVariance.OUT, type)
```

Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code. Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`. Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package) cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.

See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html) for more information.

```
package kotlin

/**
 * Convenience class to represent the values of visibility.
 */
@SinceKotlin("1.1")
enum class KVisibility {
    /**
     * Visibility of declarations marked with the `public` modifier, or with no modifier at all.
     */
    PUBLIC,

    /**
     * Visibility of declarations marked with the `protected` modifier.
     */
    PROTECTED,

    /**
     * Visibility of declarations marked with the `internal` modifier.
     */
    INTERNAL,

    /**
     * Visibility of declarations marked with the `private` modifier.
     */
    PRIVATE,

    /**
     * Visibility of declarations marked with the `package-private` modifier.
     */
    PACKAGE
}

```

```
package kotlin

/**
 * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.
 * Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.
 * Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package) cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.
 * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html) for more information.
 */
```

```
package kotlin

/**
 * Convenience class to represent the values of visibility.
 */
@SinceKotlin("1.1")
enum class KVisibility {
    /**
     * Visibility of declarations marked with the `public` modifier, or with no modifier at all.
     */
    PUBLIC,

    /**
     * Visibility of declarations marked with the `protected` modifier.
     */
    PROTECTED,

    /**
     * Visibility of declarations marked with the `internal` modifier.
     */
    INTERNAL,

    /**
     * Visibility of declarations marked with the `private` modifier.
     */
    PRIVATE,

    /**
     * Visibility of declarations marked with the `package-private` modifier.
     */
    PACKAGE
}
```

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internal` modifier. `*/
    INTERNAL,

    /**
     * Visibility of declarations marked with the `private`
     * modifier. `*/
    PRIVATE,
}

@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
            override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("$index")
        }
    }
    "BooleanArray" -> booleanArrayIterator(array)
    "ByteArray" -> byteArrayIterator(array)
    "ShortArray" -> shortArrayIterator(array)
    "CharArray" -> charArrayIterator(array)
    "IntArray" -> intArrayIterator(array)
    "LongArray" -> longArrayIterator(array)
    "FloatArray" -> floatArrayIterator(array)
    "DoubleArray" -> doubleArrayIterator(array) else throw IllegalArgumentException("Unsupported type argument for arrayIterator: $type")
}

@JsName("booleanArrayIterator")
internal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("byteArrayIterator")
internal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("shortArrayIterator")
internal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("charArrayIterator")
internal fun charArrayIterator(array: CharArray) = object : CharIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("intArrayIterator")
internal fun intArrayIterator(array: IntArray) = object : IntIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("floatArrayIterator")
internal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("doubleArrayIterator")
internal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("longArrayIterator")
internal fun longArrayIterator(array: LongArray) = object : LongIterator() {
    var index = 0
    override fun hasNext() = index < array.size
    override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException("$index")
}

@JsName("PropertyMetadata")
internal class PropertyMetadata(@JsName("callableName") val name: String)

@JsName("noWhenBranchMatched")
internal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()

@JsName("subSequence")
internal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {
    if (c is String) {
        return c.substring(startIndex, endIndex)
    } else {
        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)
    }
}

@JsName("captureStack")
internal fun captureStack(baseClass: JsClass<in Throwable>, instance: Throwable) {
    if (instance is Throwable) {
        return instance.stack
    } else {
        return instance.asDynamic().stack
    }
}

@JsName("newThrowable")
internal fun newThrowable(message: String?, cause: Throwable?): Throwable {
    val throwable = js("new Error()")
    throwable.message = if (message == "undefined") { instance(cause, message) }
    return throwable
}
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---

```kotlin
package kotlin.coroutines

import kotlin.js
import kotlin.coroutines.*

public actual fun <T> lazy(lock: Any?, mode: LazyThreadSafetyMode): Lazy<T> = UnsafeLazyImpl(initializer)

/**
 * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].
 * The [mode] parameter is ignored.
 */
public actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)

@SinceKotlin("1.3")
@JsName("CoroutineImpl")
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED

internal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>

var exception: Throwable? = null
    protected var finallyPath: Array<Int>? = null

public override val context: CoroutineContext = resultContinuation.context

var intercepted_: Continuation<Any?>? = null

internal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass)

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
    if (from.`$type$` !== undefined) {
        to.`$type$` = from.`$type$`
    }
}

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
    if (from.`$type$` !== undefined) {
        to.`$type$` = from.`$type$`
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        to.`$type$` = from.`$type$`
    }
}

internal inline fun copyArrayType(from: dynamic, to: dynamic) {
    if (from.`$type$` !== undefined) {
        to.`$type$` = from.`$type$`
    }
}

internal inline function 
```
value if this instance represents [success][Result.isSuccess] or the result of [onFailure] function for encapsulated `getOrElse { throw it }` (see [getOrElse]).
*/
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> throws the encapsulated exception
 * if it is [failure][Result.isFailure].
 *
 * This function is shorthand for `getOrElse { null }` (see [getOrElse]) or
  `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {

    invocation was successful, catching and encapsulating any thrown exception as a failure.

    Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result
 * if invocation was successful,

    Creates an instance of internal marker [Result.Failure] class to make sure that this class is not exposed in ABI.

    Returns an instance that encapsulates the given [value] as successful value.

    Companion object for [Result] class that contains its constructor functions
     * [success] and [failure].

    Companion with constructors

    Returns an instance that encapsulates the given [exception] as failure.

    Returns `true` if this instance represents [success][Result.isSuccess] or
     * [failure][Result.isFailure].

    Returns the encapsulated value if this instance represents [success][Result.isSuccess] or
     * [failure][Result.isFailure].

    Returns `true` if this instance represents failed outcome.

    Returns the encapsulated exception if this instance represents [failure][Result.isFailure] or `null`
 * if it is [success][Result.isSuccess].

    Returns a string `Success($value)` if this instance represents [success][Result.isSuccess].

    Class that contains its constructor functions
     * [success] and [failure].

    Companion object for [Result]
exception if it is [failure][Result.isFailure].

* @return The result of [transform] function applied to encapsulated value if this instance represents [success][Result.isSuccess] or the original encapsulated value if it is [failure][Result.isFailure].

* @since 1.3

// "peek" onto value/exception and pipe

/**
 * Performs the given [action] on encapsulated exception if this instance represents [failure][Result.isFailure].
 * Returns the original `Result` unchanged.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.AT_MOST_ONCE)
    }
    return when (val exception = exceptionOrNull()) {
        null -> this
        else -> runCatching { transform(exception) }
    }
}
/**
 * Performs the given [action] on encapsulated value if this instance represents [success][Result.isSuccess].
 * Returns the original `Result` unchanged.

 * @param action The action to perform on the encapsulated value.
 * @return The original `Result`.
 */
@InlineOnly
@SinceKotlin("1.3")
public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {
    contract {
        callsInPlace(action, InvocationKind.ADVANCED)
    }
    if (isSuccess)
        action(value as T)
    return this
}

/**
 * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the return value of
 * the last suspension point.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resumeWith(result: Result<T>): Unit =
    resumeWith(result)

/**
 * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the
 * last suspension point.
 */
@SinceKotlin("1.3")
@InlineOnly
public inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =
    resumeWith(Result.failure(exception))

/**
 * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.
 */
@SinceKotlin("1.3")
public inline fun <T>
    Continuation(
        context: CoroutineContext,
        crossinline resumeWith: (Result<T>) -> Unit
    ): Continuation<T> =
    object : Continuation<T> {
        override val context: CoroutineContext
            get() = context

        override fun resumeWith(result: Result<T>) =
            resumeWith(result)
    }

/**
 * Starts a coroutine without a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).startCoroutine(
    completion: Continuation<T>
) {
    createCoroutineUnintercepted(completion).intercepted().resume(Unit)
}

/**
 * Starts a coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).createCoroutine(
    receiver: R,
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)

/**
 * Starts a coroutine without a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] function is invoked when the coroutine completes with a result or an exception.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).createCoroutine(
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)

/**
 * Starts a coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] function is invoked when the coroutine completes with a result or an exception.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).createCoroutine(
    receiver: R,
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)

/**
 * Starts a coroutine without a receiver and with result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] function is invoked when the coroutine completes with a result or an exception.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <T> (suspend () -> T).createCoroutine(
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)

/**
 * Starts a coroutine with receiver type [R] and result type [T].
 * This function creates a new, fresh instance of suspendable computation every time it is invoked.
 * The [completion] function is invoked when the coroutine completes with a result or an exception.
 * A [completion] function is invoked when the coroutine completes with a result or an exception.
 * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].
 */
@SinceKotlin("1.3")
@Suppress("UNCHECKED_CAST")
public fun <R, T> (suspend R.() -> T).createCoroutine(
    receiver: R,
    completion: Continuation<T>
): Continuation<Unit> =
    SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(), COROUTINE_SUSPENDED)
type [R] and result type [T].

* This function creates and starts a new, fresh instance of suspendable computation every time it is invoked. * The [completion] continuation is invoked when the coroutine completes with a result or an exception. *

@n@SinceKotlin("1.3")@n@Suppress("UNCHECKED_CAST")@n@public fun <R, T> (suspend

R.() -> T).startCoroutine(\n
receiver: R,

completion: Continuation<T>) { \n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n
* Obtains the current continuation instance inside suspend functions and suspends * the currently running coroutine. *

In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously * from a different thread of execution. Subsequent invocation of any resume function will produce an

[IllegalStateException].\n
*\n
* An inline continuation 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* */
@SinceKotlin("1.3")
public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n    completion: Continuation<T>?) =\n    // Kotlin/JS suspend lambdas have an extra parameter
    `suspended`\n    if (this.asDynamic().length == 2) {\n        // When `suspended` is true the continuation is created, but not executed\n        this.asDynamic((completion)\n    } else {\n    createCoroutineFromSuspendFunction(completion) {\n        \n    }\n    \n    *\n    * Creates unintercepted 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 coroutine completes with result or exception.\n    * * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n    * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n    * It is the invoker's responsibility to ensure that a proper invocation context is established.\n    * Note that [completion] function may get invoked in an arbitrary context.\n    * Invoking 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    * 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    */
@SinceKotlin("1.3")
public actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n    receiver: R,\n    completion: Continuation<T>) =\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            \n        }\n    }

/**
 * Intercepts this continuation with\n * [ContinuationInterceptor].
 * This function shall be used on the immediate result of\n * [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for\n * [ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes\n * [ContinuationInterceptor.interceptContinuation], caches and returns the result.\n * * If this function is invoked on other\n * [Continuation] instances it returns 'this' continuation unchanged.\n */
@SinceKotlin("1.3")
public actual fun <T> Continuation<T>.intercepted(): Continuation<T> =
    (this as? CoroutineImpl)?.intercepted() ?:

private inline fun <T> createCoroutineFromSuspendFunction(\n    completion: Continuation<T>,\n    crossinline block: () -> Any?)\n: Continuation<Unit> {
    @Suppress("UNCHECKED_CAST")
    return object\n    : CoroutineImpl(completion as Continuation<Any?>) {
        override fun doResume(): Any? {
            exception?.let { throw it }
            return block()
        }
    }
}

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 */

package kotlin.js

// Mirrors signature from JS IR
@library
@JsName("imulEmulated")
internal
fun imul(x: Int, y: Int): Int = definedExternally

internal inline fun isArrayish(o: dynamic) =
    js("Kotlin").isArrayish(o)

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 * Apache 2.0 license file.\n *
 */

package kotlin.math

/**
 * Returns this value with the sign bit same as of the\n * [sign] value.\n * * If [sign] is `NaN` the sign of the result is undefined.\n */
@SinceKotlin("1.2")
public actual
fun Double.withSign(sign: Double): Double {
    val thisSignBit =
js("Kotlin").doubleSignBit(this).unsafeCast<Int>()
val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()
return if (thisSignBit == newSignBit) this else -
this
*/

package kotlin

/**
 * Returns a bit representation of the specified floating-point value as [Long]
 * according to the IEEE 754 floating-point \"double format\" bit layout.
 */
@SinceKotlin("1.2")
@library("doubleToBits")
public actual fun Double.toBits(): Long =
definedExternally

/**
 * Returns a bit representation of the specified floating-point value as [Long]
 * according to the IEEE 754 floating-point \"double format\" bit layout,
 * preserving \"NaN\" values exact layout.
 */
@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

/**
 * Returns a bit representation of the specified floating-point value as [Int]
 * according to the IEEE 754 floating-point \"single format\" bit layout.
 */
@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.
 */
@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>()

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>()
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```

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.js.*
import kotlin.ranges.contains
import kotlin.ranges.reversed

/**
 * 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
 */
@ExperimentalUnsignedTypes
public actual fun UIntArray.elementAt(index: Int): UInt {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * 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
 */
@ExperimentalUnsignedTypes
public actual fun ULongArray.elementAt(index: Int): ULong {
    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size") }
}

/**
 * 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
 */
@ExperimentalUnsignedTypes
public actual fun UByteArray.asList(): List<UByte> {
    return object : AbstractList<UByte>(), RandomAccess {
        override val size: Int get() = this@asList.size
        override fun isEmpty(): Boolean = this@asList.isEmpty()
        override fun contains(element: UByte): Boolean = this@asList.contains(element)
        override fun get(index: Int): UByte {
            AbstractList.checkElementIndex(index, size)
            return this@asList[index]
        }
        override fun indexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.indexOf(element)
        }
        override fun lastIndexOf(element: UByte): Int {
            if ((element as Any?) !is UByte) return -1
            return this@asList.lastIndexOf(element)
        }
    }
}
```

---

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2043
override val size: Int get() = this@asList.size
override fun isEmpty(): Boolean = this@asList.isEmpty()
override fun contains(element: UShort): Boolean = this@asList.contains(element)
override fun get(index: Int): UShort {
    AbstractList.checkElementIndex(index, size)
    return this@asList[index]
}
override fun indexOf(element: UShort): Int {
    if ((element as Any?) !is UShort) return -1
    return this@asList.indexOf(element)
}
override fun lastIndexOf(element: UShort): Int {
    if ((element as Any?) !is UShort) return -1
    return this@asList.lastIndexOf(element)
}

@Suppress("DEPRECATION")
package jquery.ui

//jquery UI
import jquery.JQuery
import kotlin.js.Json

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.dialog(): JQuery = asDynamic().dialog(

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.button(): JQuery = asDynamic().button()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.accordion(): JQuery = asDynamic().accordion()

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)

@Deprecated("Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.")
public inline fun JQuery.selectable(): JQuery = asDynamic().selectable()

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 */
package kotlin.js

import kotlin.annotation.AnnotationTarget.*

@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)
@Deprecated("Use 'external' modifier instead", level = DeprecationLevel.ERROR)
public annotation class native(public val name: String = "")

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeGetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeSetter

@Target(FUNCTION)
@Deprecated("Use inline extension function with body using dynamic")
public annotation class nativeInvoke

@Target(CLASS, FUNCTION, PROPERTY)
internal annotation class library(public val name: String = "")

@Target(CLASS)
internal annotation class marker

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 */


to denote a valid JavaScript identifier.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String) @Retention(AnnotationRetention.BINARY)

// This is in the common generated code in stdlib

@Target(AnnotationTarget.FIELD)
@Retention(AnnotationRetention.SOURCE)
public actual class JsModule(val import: String) in *n * Denotes an `external` declaration that must be imported from native JavaScript library.

* This is used in higher level (e.g. in case of CommonJS) to denote a valid JavaScript identifier.

* The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.

* The annotation can be used on top-level external declarations (classes, properties, functions) and files.

* In case of file (which can’t be `external`) the following rule applies: all the declarations in *n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)
```

```
/**
 * Denotes an `external` declaration that must be imported from native JavaScript library.
 *
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 *
 * The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can’t be `external`) the following rule applies: all the declarations in *n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)
```

```
/**
 * Denotes an `external` declaration that must be imported from native JavaScript library.
 *
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 *
 * The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can’t be `external`) the following rule applies: all the declarations in *n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)
```

```
/**
 * Denotes an `external` declaration that must be imported from native JavaScript library.
 *
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 *
 * The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can’t be `external`) the following rule applies: all the declarations in *n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)
```

```
/**
 * Denotes an `external` declaration that must be imported from native JavaScript library.
 *
 * The compiler produces the code relevant for the target module system, for example, in case of CommonJS, it will import the declaration via the `require(...)` function.
 *
 * The annotation can be used on top-level external declarations (classes, properties, functions) and files. In case of file (which can’t be `external`) the following rule applies: all the declarations in *n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object that contain all the declarations from the file.

```kotlin
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER)
public actual annotation class JsName(actual val name: String)
```

```
```
this@AbstractMutableMap.remove(element) return true

override val size: Int get() = this@AbstractMutableMap.size()

return false

override fun putAll(from: Map<out K, V>) {
    for ((key, value) in from) {
        put(key, value)
    }
}

actual override fun clear() =
    this@AbstractMutableMap.clear()

override fun containsElement(contains: V): Boolean =
    this@AbstractMutableMap.containsKey(contains)

override fun equals(other: Any?): Boolean {
    if (this === other) return true
    if (other !is Collection<*>) return false
    return AbstractSet.setEquals(this, other)
}

override fun hashCode(): Int =
    AbstractSet.unorderedHashCode(this)

override fun remove(key: K): V? {
    val iter = entries.iterator()
    while (iter.hasNext()) {
        val entry = iter.next()
        val k = entry.key
        if (key == k) {
            val value = entry.value
            iter.remove()
            return value
        }
    }
    return null
}

@Suppress("UNCHECKED_CAST")

actual override fun get(index: Int): E = array[rangeCheck(index)] as E

actual override fun set(index: Int, element: E): E {
    rangeCheck(index)

```kotlin
@Suppress("UNCHECKED_CAST")
return array[index].apply { array[index] = element } as E

actual override fun add(element: E): Boolean {
    return array.insertionRangeCheck(index)!!
        .apply { array[index] = element } as E

    actual override fun add(index: Int, element: E): Unit {
        array.splice(insertionRangeCheck(index), 0, element)
        modCount++
    }

    actual override fun addAll(elements: Collection<E>): Boolean {
        if (elements.isEmpty()) return false
        array += elements.toTypedArray<Any?>()
        modCount++
        return true
    }

    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {
        if (index == lastIndex)
            return addAll(elements)
        if (elements.isEmpty()) return false
        when (index) {
            size -> return addAll(elements)
            0 -> array = elements.toTypedArray<Any?>() + array
            else -> array =
                array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))

        array = elements.toTypedArray<Any?>() + array.copyOfRange(index, size)
        modCount++
        return true
    }

    actual override fun removeAt(index: Int): E {
        rangeCheck(index)
        modCount++
        return if (index == lastIndex)
            array.asDynamic().pop()
        else
            array.asDynamic().splice(index, 1)[0]
    }

    actual override fun remove(element: E): Boolean {
        for (index in array.indices) {
            if (array[index] == element) {
                array.splice(index, 1)
                modCount++
                return true
            }
        }
        return false
    }

    override fun removeRange(fromIndex: Int, toIndex: Int) {
        modCount++
        array.splice(fromIndex, toIndex - fromIndex)
    }

    actual override fun clear() {
        array = emptyArray()
        modCount++
    }

    actual override fun indexOf(element: E): Int = array.indexOf(element)

    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)

    override fun toString() = arrayToString(array)

    override fun toArray(): Array<Any?> = js("[]").slice.call(array)

    private fun rangeCheck(index: Int) = index.apply {
        AbstractList.checkElementIndex(index, size)
    }

    private fun insertionRangeCheck(index: Int) = index.apply {
        AbstractList.checkPositionIndex(index, size)
    }
}
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

@UseExperimental(ExperimentalUnsignedTypes::class)
@SinceKotlin("1.3")
@kotlin.js
private fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {
    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.
     * An abstract fun equals(value1: Any?, value2: Any?): Boolean
     * Subclasses must override to return the hash code of a given key.
     * An abstract fun getHashCode(value: Any?): Int
     */
    abstract fun equals(value1: Any?, value2: Any?): Boolean
    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
    }
}
package kotlin.collections

/**
 * A simple wrapper around JavaScript Map for key type is string.
 *
 * Though this map is instantiated only with K=String, the K type is not fixed to String statically, 
 * because we want to have it erased to Any? in order not to generate type-safe override bridges for
 * [get], [contains], [remove] etc, if they ever are generated.
 */
internal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {

    private var backingMap: dynamic = createJsMap()
    override var size: Int = 0
        private set

    override operator fun contains(key: K): Boolean {
        if (key !is String) return false
        return backingMap[key] !== undefined
    }

    override operator fun get(key: K): V? {
        if (key !is String) return null
        val value = backingMap[key]
        return if (value !== undefined) value.unsafeCast<V>() else null
    }

    override fun put(key: K, value: V): V? {
        require(key is String)
        val oldValue = backingMap[key]
        backingMap[key] = value
        if (oldValue === undefined) {
            size++
            return null
        } else {
            return oldValue.unsafeCast<V>()
        }
    }

    override fun remove(key: K): V? {
        if (key !is String) return null
        val value = backingMap[key]
        if (value !== undefined) {
            jsDeleteProperty(backingMap, key)
            size--
            return value.unsafeCast<V>()
        } else {
            return null
        }
    }

    override fun clear() {
        backingMap = createJsMap()
        size = 0
    }

    override fun iterator(): MutableIterator<MutableEntry<K, V>> {
        return object : MutableIterator<MutableEntry<K, V>> {
            private val keys: Array<String> = js("Object").keys(backingMap)
            private val iterator = keys.iterator()
            private var lastKey: String? = null

            override fun hasNext(): Boolean = iterator.hasNext()

            override fun next(): MutableEntry<K, V> {
                val key = iterator.next()
                lastKey = key
                @Suppress("UNCHECKED_CAST")
                return newMapEntry(key as K)
            }

            override fun remove() {
                @Suppress("UNCHECKED_CAST")
                this@InternalStringMap.remove(checkNotNull(lastKey) as K)
            }
        }
    }

    private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {
        override val key: K get() = key
        override val value: V get() = this@InternalStringMap[key]

        override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue)

        override fun removeKey(key: K): Unit = this@InternalStringMap.remove(key)

        override fun containsKey(key: K): Boolean = this@InternalStringMap.containsKey(key)

        override fun containsValue(value: V): Boolean = this@InternalStringMap.containsValue(value)

        override fun size(): Int = this@InternalStringMap.size

        override fun isEmpty(): Boolean = this@InternalStringMap.isEmpty

        override fun equals(other: Any?): Boolean = this@InternalStringMap.equals(other)

        override fun hashCode(): Int = this@InternalStringMap.hashCode()

        override fun toString(): String = this@InternalStringMap.toString()
    }
}

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 */

package kotlin.collections

private val chainOrEntryOrNull = backingMap[hashCode]
return if (chainOrEntryOrNull === undefined) null else chainOrEntryOrNull

kotlin.collections\n
import kotlin.collections.MutableMap,MutableEntry

/**
 * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order of entries during the iteration. The insertion order is preserved by maintaining a doubly-linked list of all of its entries.
 */

public actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {

    /**
     * The entry we use includes next/prev pointers for a doubly-linked circular list with a head node. This reduces the special cases we have to deal with in the list operations. Note that we duplicate the key from the underlying hash map so we can find the eldest entry. The alternative would have been to modify HashMap so more of the code was directly usable here, but this would have added some overhead to HashMap, or to reimplement most of the HashMap code here with small modifications. Paying a small storage cost only if you use LinkedHashMap and minimizing code size seemed like a better tradeoff.
     */
    private class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {
        internal var next: ChainEntry<K, V>? = null
        internal var prev: ChainEntry<K, V>? = null
    }

    private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {

        private inner class EntryIterator :
           .MutableIterator<MutableEntry<K, V>> {
                // The last entry that was returned from this iterator.
                private var last: ChainEntry<K, V>? = null

                // The next entry to return from this iterator.
                private var next: ChainEntry<K, V>? = null

                init {
                    next = head
                    checkStructuralChange(map, this)
                }

                override fun hasNext(): Boolean {
                    return next !== null
                }

                override fun next(): MutableEntry<K, V> {
                    checkStructuralChange(map, this)
                    if (!hasNext()) throw NoSuchElementException()

                    val current = next!!
                    last = current
                    next = current.next.takeIf { it !== head }!!
                    return current
                }

                override fun remove() {
                    check(last != null)
                    checkStructuralChange(map, this)

                    last!!.remove()
                    map.remove(last!!.key)
                    recordLastKnownStructure(map, this)
                    override fun next(): MutableEntry<K, V> {
                        // If hasNext() throw NoSuchElementException
                        val current = next!!
                        last = current
                        next = current.next.takeIf { it !== head }!!
                        return current
                    }
                }
            }"
*\n @suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n map = HashMap<K, ChainEntry<K, V>>()\n }\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n /*\n * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n */\n actual constructor(original: Map<kotlin.js::Any, Any>, chainFactory: ChainFactory<K, V>) {\n this.putAll(original)\n }\n
override fun clone(): Any {
//        return LinkedHashMap(this)\n//    }


    actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n
    actual override fun containsValue(value: V): Boolean {
        var node: ChainEntry<K, V> = head ?: return false\n        while (node != head) return false\n        override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n
    actual override operator fun get(key: K): V? = map.get(key)\n
    actual override fun put(key: K, value: V): V? {
        val old = map.putIfAbsent(key, value)\n        if (old != null) return old\n        return null\n    }\n
    actual override fun remove(key: K): V? {
        val entry = map.remove(key)\n        if (entry != null)\n            return entry.value\n        return null\n    }\n
    actual override val size: Int get() = map.size

}

/**
 * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.
 * This implementation preserves the insertion order of elements during the iteration.
 */
public actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {\n
    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n
    /**
     * Constructs a new empty [LinkedHashSet].
     */
    actual constructor() : super(LinkedHashMap<E, Any>())\n
    /**
     * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.
     */
    actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\n        addAll(elements)\n    }\n
    /**
     * Constructs a new empty [LinkedHashSet] with the specified [String] keys, which stores the keys as properties of JS object without hashing them.
 */
    public fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n        return LinkedHashSet<String>(LinkedHashMap<String, Any>()).apply { putAll(mapOf(elements))}\n    }\n
    @kotlin.internal.InlineOnly
    actual inline fun <R> synchronized(lock: Any, block: () -> R): R {\n        contract {\n            callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n        }\n        return block()\n    }\n

can be found in the license/LICENSE.txt file. */

package kotlin

open fun println() { println("") }

open fun println(message: Any?) { println(message) }

abstract class BaseOutput {
    abstract fun print(message: Any?)
    open fun flush() {}
}

open fun println() {
    println()
}

open fun println(message: Any?) {
    println(message)
}

@JsName("NodeJsOutput")
internal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {
    override fun print(message: Any?) {
        println(message)
    }
}

@JsName("OutputToConsoleLog")
internal class OutputToConsoleLog : BaseOutput() {
    override fun print(message: Any?) {
        println(message)
    }
}

@JsName("BufferedOutput")
internal open class BufferedOutput : BaseOutput() {
    var buffer = ""

    override fun print(message: Any?) {
        buffer += String(message)
    }

    override fun flush() {
        buffer = ""
    }
}

@JsName("BufferedOutputToConsoleLog")
internal class BufferedOutputToConsoleLog : BufferedOutput() {
    override fun print(message: Any?) {
        var s = String(message)
        val i = s.lastIndexOf("\n")
        if (i >= 0) {
            buffer += s.substring(0, i)
            flush()
            s = s.substring(i + 1)
        }
        buffer += s
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T> constructor(delegate: Continuation<T>, initialResult: Any?) : Continuation<T> {
    private var result: Any? = initialResult

    public actual override val context: CoroutineContext
        get() = delegate.context

    public actual override fun resumeWith(result: Result<T>) {
        when {
            result === UNDECIDED -> {
                this.result = result.value
            }
            result === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    public actual override fun getOrThrow(): Any? {
        when {
            this.result === RESULT ->
                delegate.resumeWith(result)
            else -> throw Exception(result)
        }
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T> constructor(delegate: Continuation<T>, initialResult: Any?) : Continuation<T> {
    private var result: Any? = initialResult

    public actual override val context: CoroutineContext
        get() = delegate.context

    public actual override fun resumeWith(result: Result<T>) {
        when {
            result === UNDECIDED -> {
                this.result = result.value
            }
            result === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    public actual override fun getOrThrow(): Any? {
        when {
            this.result === RESULT ->
                delegate.resumeWith(result)
            else -> throw Exception(result)
        }
    }
}

@PublishedApi
@SinceKotlin("1.3")
internal actual class SafeContinuation<in T> constructor(delegate: Continuation<T>, initialResult: Any?) : Continuation<T> {
    private var result: Any? = initialResult

    public actual override val context: CoroutineContext
        get() = delegate.context

    public actual override fun resumeWith(result: Result<T>) {
        when {
            result === UNDECIDED -> {
                this.result = result.value
            }
            result === COROUTINE_SUSPENDED -> {
                this.result = RESUMED
                delegate.resumeWith(result)
            }
            else -> throw IllegalStateException("Already resumed")
        }
    }

    public actual override fun getOrThrow(): Any? {
        when {
            this.result === RESULT ->
                delegate.resumeWith(result)
            else -> throw Exception(result)
        }
    }
}
package kotlin.js

/**
 * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.
 */
@Suppress("NOT_DOCUMENTED")
public external class Date() {
    public constructor(milliseconds: Number)
    public constructor(dateString: String)
    public constructor(year: Int, month: Int)
    public constructor(year: Int, month: Int, day: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)
    public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)

    public fun getDate(): Int
    public fun getDay(): Int
    public fun getFullYear(): Int
    public fun getHours(): Int
    public fun getMilliseconds(): Int
    public fun getMinutes(): Int
    public fun getMonth(): Int
    public fun getSeconds(): Int
    public fun getTime(): Double
    public fun getTimezoneOffset(): Int
    public fun getUTCDate(): Int
    public fun getUTCDay(): Int
    public fun getUTCFullYear(): Int
    public fun getUTCHours(): Int
    public fun getUTCMilliseconds(): Int
    public fun getUTCMinutes(): Int
    public fun getUTCMonth(): Int
    public fun getUTCSeconds(): Int
    public fun toDateString(): String
    public fun toISOString(): String
    public fun toJSON(): Json
    public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String
    public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String
    public fun toTimeString(): String
    public fun toUTCString(): String

    public companion object {
        public fun now(): Double
        public fun parse(dateString: String): Double
        public fun UTC(year: Int, month: Int): Double
        public fun UTC(year: Int, month: Int, day: Int): Double
        public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double
        public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double
    }

    public interface LocaleOptions {
        public var localeMatcher: String?
        public var timeZone: String?
        public var hour12: Boolean?
        public var formatMatcher: String?
        public var weekday: String?
        public var era: String?
        public var year: String?
        public var month: String?
        public var day: String?
        public var hour: String?
        public var minute: String?
        public var second: String?
        public var timeZoneName: String?
    }
}

public inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {
    val result = js("new Object()").unsafeCast<Date.LocaleOptions>()
    init(result)
    return result
}
fun Element.addClass(vararg cssClasses: String): Boolean {
    val missingClasses = cssClasses.filterNot { hasClass(it) }
    // ...
String?) : this(message, null) {  
        Error::class.js.asDynamic().call(this, message, null)
    }

    actual constructor(cause: Throwable?) : this(cause)

public open class Throwable
    actual constructor() : this(null, null)
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(message: String?) : this(message, null)
    actual constructor(cause: Throwable?) : this(cause)

    @Suppress("USELESS_ELVIS_RIGHT_IS_NULL")
public open class RuntimeException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

public open class IllegalArgumentException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

public open class IllegalStateException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

public open class IndexOutOfBoundsException
    actual constructor(message: String?) : this(message)

public open class ConcurrentModificationException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

public open class UnsupportedOperationException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

public open class NumberFormatException
    actual constructor(message: String?) : this(message)

public open class NullPointerException
    actual constructor(message: String?) : this(message)

public open class ClassCastException
    actual constructor(message: String?) : this(message)

private constructor(message: String?, cause: Throwable?) : Error(message, cause)

public open class NoSuchElementException
    actual constructor(message: String?) : this(message)

@SinceKotlin("1.3")
public open class ArithmeticException
    actual constructor(message: String?) : this(message)

public open class NoWhenBranchMatchedException
    actual constructor(message: String?, cause: Throwable?) : this(message, cause)
    actual constructor(cause: Throwable?) : this(cause)
    actual constructor(message: String?) : this(message, null)

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package kotlin.collections

/**
 * Groups elements from the [Grouping] source by key and counts elements in each
 * group.
 * @return a [Map] associating the key of each group with the count of elements in the group.
 */
@SinceKotlin("1.1")
public fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =
    fold(0) { acc, _ -> acc + 1 }

/*
 ** Groups elements from the [Grouping] source by key and counts elements in each
 * group.
 */
@SinceKotlin("1.1")
public fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =
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    fold(0) { acc, _ -> acc + 1 }

/*
 ** Groups elements from the [Grouping] source by key and counts elements in each
 * group.
 */
@SinceKotlin("1.1")
public fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =
    fold(0) { acc, _ -> acc + 1 }
with the count of element in the group.

```kotlin
@file:kotlin.jvm.JvmName("GroupingKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin.collections

/**
 * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.
 * A [Grouping] structure serves as an intermediate step in group-and-fold operations:
 * they group elements by their keys and then fold each group with some aggregating operation.
 * It is created by attaching a [keySelector: (T) -> K] function to a source of elements.
 * To get an instance of [Grouping] use one of
 * `groupingBy` extension functions.

 * **Extends**: [Iterable<+T>](https://kotlinlang.org/api/latest/api/docs/src/kotlin-collections/log4j2/1.1.1/kotlin/collections/iterable.html)

 * For the list of group-and-fold operations available,
 * see the [extension functions](#extension-functions) for `Grouping`.
 */
@SinceKotlin("1.1")
public interface Grouping<T, out K> {
    /** Returns an [Iterator] over the elements of the source of this grouping. */
    fun sourceIterator(): Iterator<T>
    /** Extracts the key of an [element]. */
    fun keyOf(element: T): K
}

/**
 * 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.

 * The key for each element is provided by the [Grouping.keyOf] function.

 * @param operation function 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, can be `null` if
 *    it's the first element encountered in the group;
 *  - `element`: the element from the source being aggregated;
 *  - `first`: indicates whether it's the first element encountered in the group.

 * @return a [Map] associating the key of each group with the result of aggregation of the group elements.
 * @sample samples.collections.Grouping.aggregateByRadix
 */
@SinceKotlin("1.1")
public inline fun <T, K, R>
    Grouping<T, K>.aggregate(
        operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
    ): Map<K, R> {
    return aggregateTo(mutableMapOf<K, R>(), operation)
}

/**
 * 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.

 * The key for each element is provided by the [Grouping.keyOf] function.

 * @param initialValueSelector a function that provides an initial value of
 *   accumulator for each 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, can be `null` if
 *    it's the first element encountered in the group;
 *  - `element`: the element from the source being aggregated;
 *  - `first`: indicates whether it's the first element encountered in the group.

 * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.
 * @sample samples.collections.Grouping.aggregateByRadixTo
 */
@SinceKotlin("1.1")
public inline fun <T, K, M : MutableMap<in K, R>, R> Grouping<T, K>.aggregateTo(
    destination: M,
    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R
): M {
    for (e in this.sourceIterator()) {
        val key = keyOf(e)
        val accumulator = destination[key]
        destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
    }
    return destination
}
```

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@sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue

/**
 * 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 to [operation] and stores the results in the given [destination] map. An initial value of accumulator is provided by [initialValueSelector] function. It's invoked with parameters: `key` : the key of the group; `element` : 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.
 */
@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
    initialValueSelector: (key: K, element: T) -> R,
    operation: (key: K, accumulator: R, element: T) -> R
): Map<K, R> =
    @Suppress("UNCHECKED_CAST")
    aggregate { 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 to [operation] and stores the results in the given [destination] map. An initial value of accumulator is the same [initialValue] for each group. @return a [Map] associating the key of each group with the result of accumulating the group elements.
 */
@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(if (first)
        initialValueSelector(key, e) 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, 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. @return a [Map] associating the key of each group with the result of accumulating the group elements.
 */
@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) }

---

Open Source Used In UCM Cloud Analyzer Service 1.0 2062
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


@SinceKotlin("1.1")
aggregate { key, acc, e, first ->
    if (first) e else operation(key, acc as S, 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. It * 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 first element of the group.

* If the [destination] map already has a value corresponding to the key of some group that * value that is used as an initial value of the accumulator for that group and the first element of that group is also subjected to the [operation].

* @param operation a function that is invoked on each subsequent element of the group with the following parameters:

* @return the [destination] map associating the key of each group with the result of accumulating the group elements.

* @sample samples.collections.Grouping.reduceByMaxVowelsTo

*/
@SinceKotlin("1.1")
aggregateTo(destination) { key, acc, e, first ->
    if (first) e else operation(key, acc as S, e)
}


/**
 * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.

* 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 counter for that group.

* @return the [destination] map associating the key of each group with the sum of elements in the group.

*/
@SinceKotlin("1.1")
public fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =
foldTo(destination, 0) { acc, _ -> acc + 1 }

/*
 * 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.js

/**
 * Exposes
 * to Kotlin.
 */
@Deprecated("Use top-level functions from kotlin.math package instead.", level = DeprecationLevel.WARNING)
public external object Math {
    @Deprecated("Use kotlin.math.PI instead.", ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)
    public val PI: Double
    @Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()", "kotlin.random")
    public fun random(): Double
    @Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level = DeprecationLevel.ERROR)
    public fun abs(value: Double): Double
    @Deprecated("Use kotlin.math.acos

Instead.

```kotlin
@Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)", "kotlin.math.asin"), level = DeprecationLevel.ERROR)
public fun asin(value: Double): Double

@Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level = DeprecationLevel.ERROR)
public fun atan(value: Double): Double

@Deprecated("Use kotlin.math.atan2 instead.", ReplaceWith("atan2(y, x)", "kotlin.math.atan2"), level = DeprecationLevel.ERROR)
public fun atan2(y: Double, x: Double): Double

@Deprecated("Use kotlin.math.cos instead.", ReplaceWith("cos(value)", "kotlin.math.cos"), level = DeprecationLevel.ERROR)
public fun cos(value: Double): Double

@Deprecated("Use kotlin.math.sin instead.", ReplaceWith("sin(value)", "kotlin.math.sin"), level = DeprecationLevel.ERROR)
public fun sin(value: Double): Double

@Deprecated("Use kotlin.math.exp instead.", ReplaceWith("exp(value)", "kotlin.math.exp"), level = DeprecationLevel.ERROR)
public fun exp(value: Double): Double

@Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
public fun max(vararg values: Int): Int

@Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
public fun max(vararg values: Float): Float

@Deprecated("Use maxOf or kotlin.math.max instead", level = DeprecationLevel.ERROR)
public fun max(vararg values: Double): Double

@Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)
public fun min(vararg values: Int): Int

@Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)
public fun min(vararg values: Float): Float

@Deprecated("Use minOf or kotlin.math.min instead", level = DeprecationLevel.ERROR)
public fun min(vararg values: Double): Double

@Deprecated("Use kotlin.math.sqrt instead.", ReplaceWith("sqrt(value)", "kotlin.math.sqrt"), level = DeprecationLevel.ERROR)
public fun sqrt(value: Double): Double

@Deprecated("Use kotlin.math.tan instead.", ReplaceWith("tan(value)", "kotlin.math.tan"), level = DeprecationLevel.ERROR)
public fun tan(value: Double): Double

@Deprecated("Use kotlin.math.ln instead.", ReplaceWith("ln(value)", "kotlin.math.ln"), level = DeprecationLevel.ERROR)
public fun log(value: Double): Double

@Deprecated("Use kotlin.math.pow instead.", ReplaceWith("base.pow(exp)", "kotlin.math.pow"), level = DeprecationLevel.ERROR)
public fun pow(base: Double, exp: Double): Double

@Deprecated("Use kotlin.math.round instead.", ReplaceWith("round(value)", "kotlin.math.round"), level = DeprecationLevel.ERROR)
public fun round(value: Number): Int

@Deprecated("Use kotlin.math.ceil instead.", ReplaceWith("ceil(value)", "kotlin.math.ceil"), level = DeprecationLevel.ERROR)
public fun ceil(value: Number): Int

@Deprecated("Use kotlin.math.floor instead.", ReplaceWith("floor(value)", "kotlin.math.floor"), level = DeprecationLevel.ERROR)
public fun floor(value: Number): Int

@PublishedApi
internal fun sinh(value: Double): Double

@PublishedApi
internal fun cosh(value: Double): Double

@PublishedApi
internal fun tanh(value: Double): Double

@PublishedApi
internal fun asinh(value: Double): Double

@PublishedApi
internal fun acosh(value: Double): Double

@PublishedApi
internal fun atanh(value: Double): Double

@PublishedApi
internal fun hypot(x: Double, y: Double): Double

@PublishedApi
internal fun expm1(value: Double): Double

@PublishedApi
internal fun log10(value: Double): Double

@PublishedApi
internal fun log2(value: Double): Double

@PublishedApi
internal fun log1p(value: Double): Double

@PublishedApi
internal fun clz32(value: Int): Int
```

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An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any].

```kotlin
/**
 * A public interface for accessing a collection of key-value pairs, where type of key is [String] and type of value is [Any].
 */
public interface Json {
    /**
     * Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.
     * E.g. for the following code:
     * ```kotlin
     * fun test(j: Json, p: String) = j["prop"] + j.get(p)
     * ```
     * will be generated:
     * ```js
     * function test(j, p) {
     *     return j["prop"] + j[p];
     * }
     * ```
     */
    operator fun get(propertyName: String): Any?

    /**
     * Calls of the function will be translated to assigning the [value] to the receiver indexed (with square brackets/index operation) with [propertyName].
     * E.g. for the following code:
     * ```kotlin
     * fun test(j: Json, p: String, newValue: Any) {
     *     j["prop"] = 1
     *     j.set(p, newValue)
     * }
     * ```
     * will be generated:
     * ```js
     * function test(j, p, newValue) {
     *     j["prop"] = 1;
     *     j[p] = newValue;
     * }
     * ```
     */
    operator fun set(propertyName: String, value: Any?): Unit
}

/**
 * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.
 */
public fun json(vararg pairs: Pair<String, Any?>): Json {
    val res: dynamic = js("({})")
    for ((name, value) in pairs) {
        res[name] = value
    }
    return res
}

/**
 * Adds key-value pairs from [other] to [this].
 * Returns the original receiver.
 */
public fun Json.add(other: Json): Json {
    val keys = js("Object").keys(other)
    for (key in keys) {
        if (other.asDynamic().hasOwnProperty(key)) {
            this[key] = other[key]
        }
    }
    return this
}

/**
 */
@file:Suppress("NOT_DOCUMENTED")
package kotlin.math

import kotlin.internal.InlineOnly
import kotlin.js.Math as nativeMath

// region Double Math
/**
 * Computes the sine of the angle [x] given in radians.
 * Special cases:
 * - `sin(NaN)` is `NaN`
 * - `sin(+Inf)-Inf)` is `-sin(Inf)`
 * - `sin(-Inf)` is `-sin(Inf)`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sin(x: Double): Double = nativeMath.sin(x)

/**
 * Computes the cosine of the angle [x] given in radians.
 * Special cases:
 * - `cos(NaN)` is `NaN`
 * - `cos(+Inf)` is `-sin(Inf)`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cos(x: Double): Double = nativeMath.cos(x)

/**
 * Computes the tangent of the angle [x] given in radians.
 * Special cases:
 * - `tan(NaN)` is `NaN`
 * - `tan(+Inf)` is `Inf`
 * - `tan(-Inf)` is `-Inf`
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tan(x: Double): Double = nativeMath.tan(x)

/**
 * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond
 * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value `y`/`x`.
 * Special cases:
 * - `atan2(0, 0)` is `0`
 * - `atan2(y, x)` returns the angle `theta` in the range from `-Pi/2` to `Pi/2` radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)

Open Source Used In UCM Cloud Analyzer Service 1.0 2065
- `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-0.0` for `x < 0`
- `atan2(0.0, y)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`
- `atan2(y, -0.0)` is `PI` for `y > 0` and `-PI` 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`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun atan2(y: Double, x: Double): Double =
nativeMath.atan2(y, x)
```

- `sinh(NaN)` is `NaN`
- `cosh(NaN)` is `NaN`
- `tanh(NaN)` is `NaN`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun sinh(x: Double): Double =
nativeMath.sinh(x)
```

- `cosh(NaN)` is `NaN`
- `tanh(NaN)` is `NaN`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun cosh(x: Double): Double =
nativeMath.cosh(x)
```

- `tanh(NaN)` is `NaN`
- `tanh(+Inf)` is `1.0`
- `tanh(-Inf)` is `-1.0`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun tanh(x: Double): Double =
nativeMath.tanh(x)
```

- `asinh(NaN)` is `NaN`
- `acosh(NaN)` is `NaN`
- `atanh(NaN)` is `NaN`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun asinh(x: Double): Double =
nativeMath.asinh(x)
```

- `expm1(NaN)` is `NaN`
- `expm1(+Inf)` is `+Inf`
- `expm1(-Inf)` is `-Inf`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun expm1(x: Double): Double =
nativeMath.expm1(x)
```

- `exp(NaN)` is `NaN`
- `exp(+Inf)` is `+Inf`
- `exp(-Inf)` is `0.0`

```
*An@SinceKotlin("1.2")@InlineOnly
public actual inline fun exp(x: Double): Double =
nativeMath.exp(x)
```

```
public actual fun log(x: Double, base: Double) {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
```

```
public actual inline fun ln(x: Double): Double =
nativeMath.log(x)
```

```
public actual inline fun log10(x: Double): Double =
nativeMath.log10(x)
```

```
public actual inline fun log2(x: Double): Double =
nativeMath.log2(x)
```

```
public actual function log(x: Double) {
    return nativeMath.log(x)
}
```

```
public actual function log10(x: Double) {
    return nativeMath.log10(x)
}
```

```
public actual function log2(x: Double) {
    return nativeMath.log2(x)
}
```

```
public actual function exp(x: Double) {
    return nativeMath.exp(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function sinh(x: Double) {
    return nativeMath.sinh(x)
}
```

```
public actual function cosh(x: Double) {
    return nativeMath.cosh(x)
}
```

```
public actual function tanh(x: Double) {
    return nativeMath.tanh(x)
}
```

```
public actual function asinh(x: Double) {
    return nativeMath.asinh(x)
}
```

```
public actual function acosh(x: Double) {
    return nativeMath.acosh(x)
}
```

```
public actual function atanh(x: Double) {
    return nativeMath.atanh(x)
}
```

```
public actual function hypot(x: Double, y: Double) {
    return nativeMath.hypot(x, y)
}
```

```
public actual function sqrt(x: Double) {
    return nativeMath.sqrt(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function log(x: Double, base: Double) {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
```

```
public actual function ln(x: Double) {
    return nativeMath.log(x)
}
```

```
public actual function log10(x: Double) {
    return nativeMath.log10(x)
}
```

```
public actual function log2(x: Double) {
    return nativeMath.log2(x)
}
```

```
public actual function exp(x: Double) {
    return nativeMath.exp(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function sinh(x: Double) {
    return nativeMath.sinh(x)
}
```

```
public actual function cosh(x: Double) {
    return nativeMath.cosh(x)
}
```

```
public actual function tanh(x: Double) {
    return nativeMath.tanh(x)
}
```

```
public actual function asinh(x: Double) {
    return nativeMath.asinh(x)
}
```

```
public actual function acosh(x: Double) {
    return nativeMath.acosh(x)
}
```

```
public actual function atanh(x: Double) {
    return nativeMath.atanh(x)
}
```

```
public actual function hypot(x: Double, y: Double) {
    return nativeMath.hypot(x, y)
}
```

```
public actual function sqrt(x: Double) {
    return nativeMath.sqrt(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function log(x: Double, base: Double) {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
```

```
public actual function ln(x: Double) {
    return nativeMath.log(x)
}
```

```
public actual function log10(x: Double) {
    return nativeMath.log10(x)
}
```

```
public actual function log2(x: Double) {
    return nativeMath.log2(x)
}
```

```
public actual function exp(x: Double) {
    return nativeMath.exp(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function sinh(x: Double) {
    return nativeMath.sinh(x)
}
```

```
public actual function cosh(x: Double) {
    return nativeMath.cosh(x)
}
```

```
public actual function tanh(x: Double) {
    return nativeMath.tanh(x)
}
```

```
public actual function asinh(x: Double) {
    return nativeMath.asinh(x)
}
```

```
public actual function acosh(x: Double) {
    return nativeMath.acosh(x)
}
```

```
public actual function atanh(x: Double) {
    return nativeMath.atanh(x)
}
```

```
public actual function hypot(x: Double, y: Double) {
    return nativeMath.hypot(x, y)
}
```

```
public actual function sqrt(x: Double) {
    return nativeMath.sqrt(x)
}
```

```
public actual function expm1(x: Double) {
    return nativeMath.expm1(x)
}
```

```
public actual function log(x: Double, base: Double) {
    if (base <= 0.0 || base == 1.0) return Double.NaN
    return nativeMath.log(x) / nativeMath.log(base)
}
```

```
public actual function ln(x: Double) {
    return nativeMath.log(x)
}
```

```
public actual function log10(x: Double) {
    return nativeMath.log10(x)
}
```

```
public actual function log2(x: Double) {
    return nativeMath.log2(x)
}
```
nativeMath.log2(x)\n\n/**
 * Computes `\(\ln(x + 1)\)`.\n * This function can be implemented to produce more
 * precise result for [\(x\)] near zero.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Double): Double =\nnativeMath.log1p(x)\n\n/**
 * Computes `\(\ln(x + 1)\)`.
 *
 * This function can be implemented to produce more
 * precise result for \([x]\) near zero.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double =\nnativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\n\n/**
 * Rounds the given value \([x]\) to an integer towards positive infinity.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double =\nnativeMath.floor(x).unsafeCast<Double>()\n\n/**
 * Rounds the given value \([x]\) to an integer towards zero.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\n\n/**
 * Rounds the given value \([x]\) towards the closest integer with ties rounded towards even integer.\n */\n\n@SinceKotlin("1.2")\npublic actual fun round(x: Double): Double =\nif (x % 0.5 != 0.0) {
    return nativeMath.round(x).unsafeCast<Double>()
} else {
    val floor = floor(x)
    return if (floor % 2 == 0.0) floor else ceil(x)
}\n\n/**
 * Returns the absolute value of the given value \([x]\).\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =\nnativeMath.abs(x)\n\n/**
 * Returns the sign of the given value \([x]\):\n *   - `-1.0` if the value is negative,
 *   - zero if the value is zero,
 *   - `1.0` if the value is positive\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =\nnativeMath.sign(x)\n\n/**
 * Returns the smaller of two values.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =\nnativeMath.min(a, b)\n\n/**
 * Returns the greater of two values.\n */\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =\nnativeMath.max(a, b)
Double.MAX_VALUE -> this - this.nextDown()
    else -> this.nextUp() - this
}

/**
 * Returns the [Double] value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public fun Double.isNaN(): Boolean = this == Double.NaN

/**
 * Returns the [Double] value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public fun Double.isSignalingNaN(): Boolean = this == Double.NEGATIVE_INFINITY

/**
 * Returns the [Double] value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public fun Double.isInfinite(): Boolean = this == Double.INFINITY

/**
 * Returns the [Double] value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public fun Double.isNegative(): Boolean = this < 0.0

/**
 * Returns the [Double] value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public fun Double.isPositive(): Boolean = this > 0.0

/**
 * Returns the [Double] value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public fun Double.isZero(): Boolean = this == 0.0

/**
 * Returns the [Double] value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public fun Double.signum(): Double = signum

/**
 * Returns the [Double] value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public fun Double.withSign(): Double = signum * abs(this)

/**
 * Returns the [Double] value nearest to this value in direction of positive infinity.
 */
@SinceKotlin("1.2")
public fun Double.max(*args: Double...): Double = max

/**
 * Returns the [Double] value nearest to this value in direction of negative infinity.
 */
@SinceKotlin("1.2")
public fun Double.min(*args: Double...): Double = min

/**
 * Computes the sine of the angle [x] given in radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public inline fun sin(x: Double): Double = nativeMath.sin(x.toDouble()).toFloat()

/**
 * Computes the cosine of the angle [x] given in radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public inline fun cos(x: Double): Double = nativeMath.cos(x.toDouble()).toFloat()

/**
 * Computes the tangent of the angle [x] given in radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public inline fun tan(x: Double): Double = nativeMath.tan(x.toDouble()).toFloat()

/**
 * Computes the arc cosine of the value [x] in the range from `0.0` to `PI` radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public fun acos(x: Double): Double = nativeMath.acos(x.toDouble()).toFloat()

/**
 * Computes the arc sine of the value [x] in the range from `-PI/2` to `PI/2` radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public fun asin(x: Double): Double = nativeMath.asin(x.toDouble()).toFloat()

/**
 * Computes the arc tangent of the value [x] in the range from `-PI/2` to `PI/2` radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public fun atan(x: Double): Double = nativeMath.atan(x.toDouble()).toFloat()

/**
 * Computes the arc tangent of the value [x] in the range from `-PI` to `PI` radians.
 */
@SinceKotlin("1.2")
@InlineOnly
public fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()
for $0 < y < +\infty$ and $-\pi$ for $-\infty < y < 0$. The returned value is $y$ such that $\sinh(y) == x$. Special cases:

* $\sinh(NaN)$ is $NaN$.
* $\sinh(\pm\infty)$ is $\pm\infty$.

*/
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()

/**
 * Computes the hyperbolic cosine of the value $x$. The returned value is positive $y$ such that $cosh(y) == x$.
 * Special cases:
 * $\cosh(NaN)$ is $NaN$.
 * $\cosh(\pm\infty)$ is $\pm\infty$.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()

/**
 * Computes the hyperbolic tangent of the value $x$. The returned value is $y$ such that $tanh(y) == x$.
 * Special cases:
 * $\tanh(NaN)$ is $NaN$.
 * $\tanh(\pm\infty)$ is $\pm1$.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic sine of the value $x$. Returns $y$ such that $\sinh(y) == x$.
 * Special cases:
 * $\asinh(NaN)$ is $NaN$.
 * $\asinh(\pm\infty)$ is $\pm\infty$.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic cosine of the value $x$. Returns $y$ such that $cosh(y) == x$.
 * Special cases:
 * $\acosh(NaN)$ is $NaN$.
 * $\acosh(x)$ is $NaN$ for $x < 1$.
 * $\acosh(\pm\infty)$ is $\pm\infty$.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()

/**
 * Computes the inverse hyperbolic tangent of the value $x$. Returns $y$ such that $tanh(y) == x$.
 * Special cases:
 * $\tanh(NaN)$ is $NaN$.
 * $\tanh(x)$ is $NaN$ for $x > 1$ or $x < -1$.
 * $\tanh(\pm\infty)$ is $\pm1$.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()
*\@SinceKotlin("1.2\")\n*-\@InlineOnly

public actual inline fun log2(x: Float): Float =
nativeMath.log2(x.toDouble()).toFloat()

/**
 * Computes `\log2(x)\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Float): Float =
nativeMath.log2(x.toDouble()).toFloat()

/**
 * Computes `\ln(x)\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log(x: Float): Float =
nativeMath.log(x.toDouble()).toFloat()

/**
 * Computes `\ln(1 + x)\`.
 *
 * This function can be implemented to produce more precise result for `x` near zero.\n
 * Special cases:\n
 * - `\ln(1)\` is `0\`.
 * - `\ln(-1)\` is `-Inf\`.
 * - `\ln(+Inf)\` is `+Inf\`.
 * @see [ln] function\n
 * @since Kotlin 1.2
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log(x: Float): Float =
nativeMath.log(x.toDouble()).toFloat()

/**
 * Computes `\ln(1 + x)\`.
 *
 * This function can be implemented to produce more precise result for `x` near zero.\n
 * Special cases:\n
 * - `\ln1p(0)\` is `0\`.
 * - `\ln1p(-0.0)\` is `-0.0\`.
 * - `\ln1p(+Inf)\` is `+Inf\`.
 * @see [ln] function\n
 * @since Kotlin 1.2
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log1p(x: Float): Float =
nativeMath.log1p(x.toDouble()).toFloat()

/**
 * Computes `\exp(x)\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Float): Float =
nativeMath.exp(x.toDouble()).toFloat()

/**
 * Computes `\exp(-x)\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Float): Float =
nativeMath.expm1(x.toDouble()).toFloat()

/**
 * Computes `\exp(1)\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp10(x: Float): Float =
nativeMath.exp10(x.toDouble()).toFloat()

/**
 * Computes `\exp(\ln(x))\`.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Float): Float =
nativeMath.expm1(x.toDouble()).toFloat()
converts the result to [Int].

*Ties are rounded towards positive infinity.*

)`x.roundToInt()` returns the integer closest to `x`. In case of a tie, the result is the integer with the least magnitude. This is equal to `Int.Maths.round(x)`.

`x.roundToInt()` returns `x` itself if `x` is already an integer.

### Special cases:

- `x > Int.MAX_VALUE` returns `Int.MAX_VALUE`
- `x < Int.MIN_VALUE` returns `Int.MIN_VALUE`
- `x` is `NaN`
- `x` is `Int.MIN_VALUE` or `-Int.MIN_VALUE`
- `x` is zero
- `x` is negative zero
- `x` is positive zero

### Examples:

```kotlin
Int.MIN_VALUE.roundToInt() == Int.MIN_VALUE
Int.MAX_VALUE.roundToInt() == Int.MAX_VALUE
0.0f.roundToInt() == 0
-0.0f.roundToInt() == 0
```

### See also:

- `abs()` function (public)
- `floor()` function (public)
- `ceil()` function (public)
- `rint()` function (public)
- `trunc()` function (public)

---

**Floating point operations**

### abs() function

#### Description:

Returns the absolute value of the given value.

```kotlin
abs(x: Int): Int = if (x < 0) (-x or 0) else x
```

#### Special cases:

- `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow

### Examples:

```kotlin
Int.MIN_VALUE.abs() == Int.MIN_VALUE
Int.MAX_VALUE.abs() == Int.MAX_VALUE
0.abs() == 0
```

### See also:

- `AbsoluteValue extension property for [Int]`

---

**Integer Math**

```kotlin
// endregion
```

```kotlin
// region ================ Integer Math
========================================

/**
 * Returns the absolute value of the given value.
 */
@SinceKotlin("1.2")
public actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val Int.absoluteValue: Int get() = abs(this)

/**
 * 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")
public actual val Int.sign: Int get() = when {
    this < 0 -> -1
    this > 0 -> 1
    else -> 0
}

/**
 * Returns the absolute value of the given value.
 */
@SinceKotlin("1.2")
public actual fun abs(n: Long): Long = if (n < 0) -n else n

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
@InlineOnly
public actual inline val Long.absoluteValue: Long get() = abs(this)

/**
 * 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")
public actual val Long.sign: Int get() = when {
    this < 0 -> -1
    this > 0 -> 1
    else -> 0
}

---

**Floating point operations**

### isNaN() function

#### Description:

Returns `true` if the specified floating-point value `x` is `NaN` (Not-a-Number), otherwise, returns `false`.

```kotlin
isNaN(x: Number): Boolean = x != x
```

### Examples:

```kotlin
isNaN(0.0f) == false
isNaN(Double.NaN) == true
```

### See also:

- `isInfinity()` function (public)
- `isFinite()` function (public)

---

**Floating point operations**

### isFinite() function

#### Description:

Returns `true` if the specified floating-point value `x` is not `NaN` and is not infinite, otherwise returns `false`.

```kotlin
isFinite(x: Number): Boolean = x != Double.NEGATIVE_INFINITY && x != Double.POSITIVE_INFINITY
```

### Examples:

```kotlin
isFinite(0.0f) == true
isFinite(Double.NaN) == false
```

### See also:

- `isNaN()` function (public)
- `isInfinity()` function (public)
*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@Suppress("DEPRECATION")\@kotlin.internal.InlineOnly\public actual fun Int.countOneBits(): Int { // Hacker's Delight 5-1 algorithm\v = this\v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\v = (v and 0x0000FFFF) \return v\n}/**\* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\n/**\* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.countTrailingZeroBits(): Int =\n    // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\n    Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n/**\* Returns a number having a single bit set in the position of the most significant set bit of this [Int] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.takeHighestOneBit(): Int =\n    if (this == 0) 0 else 1 shl (Int.SIZE_BITS - 1 - countLeadingZeroBits())\n/**\* Returns a number having a single bit set in the position of the least significant set bit of this [Int] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.takeLowestOneBit(): Int =\n    // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n    this and -this\n/**\* Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.rotateLeft(bitCount: Int): Int =\n    shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n/**\* Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Int.rotateRight(bitCount: Int): Int =\n    shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n/**\* Counts the number of set bits in the binary representation of this [Long] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Long.countOneBits(): Int =\n    high.countOneBits() + low.countOneBits()\n/**\* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Long.countLeadingZeroBits(): Int =\n    when (val high = this.high) {\n        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n        high.countLeadingZeroBits()\n    }\n/**\* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Long.countTrailingZeroBits(): Int =\n    when (val low = this.low) {\n        0 -> Int.SIZE_BITS + low.countTrailingZeroBits()\n        high.countTrailingZeroBits()\n    }\n/**\* Returns a number having a single bit set in the position of the most significant set bit of this [Long] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Long.takeHighestOneBit(): Long =\n    when (val high = this.high) {\n        0 -> Long(low.takeHighestOneBit(), 0)\n        high.takeHighestOneBit()\n    }\n/**\* Returns a number having a single bit set in the position of the least significant set bit of this [Long] number.\n*/\n*\@SinceKotlin("1.3")\@ExperimentalStdlibApi\@public actual fun Long.takeLowestOneBit(): Long =\n    when (val low = this.low) {\n        0 -> Long(0, high.takeLowestOneBit())\n    }
Long(low.takeLowestOneBit(), 0)\n
number.rotateLeft(-n) == number.rotateRight(n) \n
number.rotateLeft(n) == number.rotateRight(n % 64) \n
* @SinceKotlin(\"1.3\") @ExperimentalStdlibApi public actual fun Long.rotateLeft(bitCount: Int): Long \n
| Long \n| Integer \n| Number \n| Boolean \n| String \n| Function \n| Object \n
Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount) \n
number.rotateRight(-n) == number.rotateLeft(n) \n
number.rotateRight(n) == number.rotateRight(n % 64) \n
* @SinceKotlin(\"1.3\") @ExperimentalStdlibApi public actual inline fun \n
DoubleFromParts(hi26: Int, low27: Int): Double = hi26 * INV_2_26 + low27 * INV_2_53 \n
package kotlin.random \n
import kotlin.math.pow \n
internal actual fun defaultPlatformRandom(): Random = \n
Random(js("(Math.random() * Math.pow(2, 32)) | 0").unsafeCast<Int>())\n
package kotlin.js \n
import getKClass \n
import kotlin.reflect.KClass \n
import kotlin.reflect.js.internal.KClassImpl \n
/** \n * Represents the constructor of a class. Instances of `JsClass` can be \n * passed to JavaScript APIs that expect a constructor reference. \n * \n * Use of this source code is governed by the Apache 2.0 license that \n * can be found in the license/LICENSE.txt file. \n */

@LowPriorityInOverloadResolution

@package kotlin.js

import kotlin.reflect.js

import kotlin.reflect.js.internal.KClassImpl

/** \n * Represents the constructor of a class. Instances of `JsClass` can be \n * passed to JavaScript APIs that expect a constructor reference. \n * \n * Use of this source code is governed by the Apache 2.0 license that \n * can be found in the license/LICENSE.txt file. \n */

public actual external class JsClass<T : Any> {
    /** \n     * Returns the unqualified name of the class represented by this instance.\n     */
    val name: String

    fun <T : Any> jsClass():
public

class KClassImpl<T : Any>(
    internal open val jClass: JsClass<T>
) : KClass<T> {
    override val annotations: List<Annotation>
        get() = TODO()
    override val constructors:
        Collection<KFunction<T>>
        get() = TODO()
    override val isAbstract: Boolean
        get() = TODO()

    override val isCompanion: Boolean
        get() = TODO()
    override val isData: Boolean
        get() = TODO()

    override val isOpen: Boolean
        get() = TODO()
    override val isSealed: Boolean
        get() = TODO()

    override val members: Collection<KCallable<*>>
        get() = TODO()
    override val nestedClasses:
        Collection<KClass<*>>
        get() = TODO()
    override val objectInstance: T?
        get() = TODO()

    override val qualifiedName: String?
        get() = TODO()
    override val supertypes: List<KType>
        get() = TODO()
    override val typeParameters: List<KTypeParameter>
        get() = TODO()
    override
        List<KClass<out T>>
        get() = TODO()
    override val visibility: KVisibility?
        get() = TODO()

    override fun equals(other: Any?): Boolean {
        return other is KClassImpl<*> && jClass ==
            other.jClass
    }

    // TODO: use FQN
    override fun hashCode(): Int = simpleName?.hashCode() ?: 0

    override fun toString(): String {
        // TODO: use FQN
        return "class $simpleName"
    }
}

internal

class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {
    override val simpleName:
        String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()

    override Run
        isInstance(value: Any?): Boolean {
        return jsIsType(value, jClass)
    }

    override val jClass:
        JsClass<Nothing>
        get() = throw UnsupportedOperationException("There's no native JS class for Nothing
type");

    override val isInstance(value: Any?): Boolean = false

    override val
        isNative
        get() = throw UnsupportedOperationException("There's no native JS class for Nothing
type");

    override val variance:
        String?
        get() = TODO()
}

internal

class PrimitiveKClassImpl<T : Any>(
    classifier: KClassifier,
    arguments: Array<KTypeProjection>,
    isMarkedNullable: Boolean
) =

KTypeImpl(classifier, arguments.asList(), isMarkedNullable)

@JsName("createKType")
internal fun createKType(
    classifier: KClassifier,
    arguments: Array<KTypeProjection>,
    isMarkedNullable: Boolean
) =

KTypeImpl(classifier, arguments.asList(), isMarkedNullable)

@JsName("createDynamicKType")
internal fun

createDynamicKType(): KType = DynamicKType

@JsName("markKTypeNullable")
internal fun

markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType
arguments.asList(), true)

@JsName("createKTypeParameter")
internal fun createKTypeParameter(
    name: String,
    upperBounds: Array<KType>,
    variance: String
) =

KTypeImpl(classifier, arguments.asList(), isMarkedNullable
name

@JsName("createKClass")
internal fun

createKClass(classifier: KClassifier,
arguments: Array<KTypeProjection>,
isMarkedNullable: Boolean
name)

KTypeImpl(classifier, arguments.asList(), isMarkedNullable
name)

@JsName("createKTypeParameter")
internal fun createKTypeParameter(
    name: String,
    upperBounds: Array<KType>,
    variance: String
) =

KTypeImpl(name, upperBounds.asList(), variance)

@JsName("createKClass")
internal fun

createKClass(classifier: KClassifier,
arguments: Array<KTypeProjection>,
isMarkedNullable: Boolean
name)

KTypeImpl(classifier, arguments.asList(), isMarkedNullable
name)

@JsName("createKTypeParameter")
internal fun createKTypeParameter(
    name: String,
    upperBounds: Array<KType>,
    variance: String
) =

KTypeImpl(name, upperBounds.asList(), variance)

@JsName("createKClass")
internal fun

createKClass(classifier: KClassifier,
arguments: Array<KTypeProjection>,
isMarkedNullable: Boolean
name)

KTypeImpl(classifier, arguments.asList(), isMarkedNullable
name)

@JsName("createKTypeParameter")
internal fun createKTypeParameter(
    name: String,
    upperBounds: Array<KType>,
    variance: String
) =

KTypeImpl(name, upperBounds.asList(), variance)
false)\n\n@JsName("getStarKTypeProjection")\ninternal fun getStarKTypeProjection(): KTypeProjection =\nKTypeProjection.STAR\n@JsName("createCovariantKTypeProjection")\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.covariant(type)\n@JsName("createInvariantKTypeProjection")\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.invariant(type)\n@JsName("createContravariantKTypeProjection")\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.contravariant(type)\n
@JsName("getStarKTypeProjection")\ninternal fun getStarKTypeProjection(): KTypeProjection =\nKTypeProjection.STAR\n@JsName("createCovariantKTypeProjection")\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.covariant(type)\n@JsName("createInvariantKTypeProjection")\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.invariant(type)\n@JsName("createContravariantKTypeProjection")\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\nKTypeProjection.contravariant(type)\n
// TODO: this should be the implementation of KTypeProjection.toString, see KT-30071\nprivate fun KTypeProjection.asString(): String {
    if (variance == null) return "*
    return variance.prefixString() + type.toString()\n}

internal data class KTypeParameterImpl(
    override val name: String,
    override val upperBounds: List<KType>,
    override val variance: KVariance,
    override val isReified: Boolean
) : KTypeParameter {
    override fun toString(): String = name
}

@JsName("PrimitiveClasses")\ninternal object PrimitiveClasses {\n    @JsName("anyClass")\n        val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(), "Any", { it is Any })\n    @JsName("numberClass")\n        val numberClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n    @JsName("nothingClass")\n        val nothingClass = NothingKClassImpl\n    @JsName("booleanClass")\n        val booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean })\n    @JsName("byteClass")\n        val byteClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n    @JsName("shortClass")\n        val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(), "Short", { it is Short })\n    @JsName("intClass")\n        val intClass = 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 })

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@JsName("arrayClass")
    val arrayClass = PrimitiveKClassImpl(js("Array"), unsafeCast<JsClass<Array<*>>(), \
    { it is Array<* })

@JsName("stringClass")
    val stringClass = PrimitiveKClassImpl(js("String"), unsafeCast<JsClass<String>>(), \
    { it is String })

@JsName("throwableClass")
    val throwableClass = PrimitiveKClassImpl(js("Error"), unsafeCast<JsClass<Throwable>>(), \
    { it is Throwable })

@JsName("booleanArrayClass")
    val booleanArrayClass = PrimitiveKClassImpl(js("Array"), unsafeCast<JsClass<BooleanArray>>(), \
    { it is BooleanArray })

@JsName("charArrayClass")
    val charArrayClass = PrimitiveKClassImpl(js("Uint16Array"), unsafeCast<JsClass<CharArray>>(), \
    { it is CharArray })

@JsName("byteArrayClass")
    val byteArrayClass = PrimitiveKClassImpl(js("Int8Array"), unsafeCast<JsClass<ByteArray>>(), \
    { it is ByteArray })

@JsName("shortArrayClass")
    val shortArrayClass = PrimitiveKClassImpl(js("Int16Array"), unsafeCast<JsClass<ShortArray>>(), \
    { it is ShortArray })

@JsName("intArrayClass")
    val intArrayClass = PrimitiveKClassImpl(js("Int32Array"), unsafeCast<JsClass<IntArray>>(), \
    { it is IntArray })

@JsName("longArrayClass")
    val longArrayClass = PrimitiveKClassImpl(js("Array"), unsafeCast<JsClass<LongArray>>(), \
    { it is LongArray })

@JsName("floatArrayClass")
    val floatArrayClass = PrimitiveKClassImpl(js("Float32Array"), unsafeCast<JsClass<FloatArray>>(), \
    { it is FloatArray })

@JsName("doubleArrayClass")
    val doubleArrayClass = PrimitiveKClassImpl(js("Float64Array"), unsafeCast<JsClass<DoubleArray>>(), \
    { it is DoubleArray })

@JsName("booleanClass")
    val booleanClass = PrimitiveKClassImpl(js("Boolean"), unsafeCast<JsClass<Boolean>>(), \
    { it is Boolean })

@JsName("charClass")
    val charClass = PrimitiveKClassImpl(js("String"), unsafeCast<JsClass<Character>>(), \
    { it is Character })

@JsName("byteClass")
    val byteClass = PrimitiveKClassImpl(js("Array"), unsafeCast<JsClass<Byte>>(), \
    { it is Byte })

@JsName("shortClass")
    val shortClass = PrimitiveKClassImpl(js("Int16Array"), unsafeCast<JsClass<Short>>(), \
    { it is Short })

@JsName("intClass")
    val intClass = PrimitiveKClassImpl(js("Int32Array"), unsafeCast<JsClass<Integer>>(), \
    { it is Integer })

@JsName("longClass")
    val longClass = PrimitiveKClassImpl(js("Array"), unsafeCast<JsClass<Long>>(), \
    { it is Long })

@JsName("floatClass")
    val floatClass = PrimitiveKClassImpl(js("Float32Array"), unsafeCast<JsClass<Float>>(), \
    { it is Float })

@JsName("doubleClass")
    val doubleClass = PrimitiveKClassImpl(js("Float64Array"), unsafeCast<JsClass<Double>>(), \
    { it is Double })

@JsName("functionClass")
    fun functionClass(arity: Int): KClassImpl<Any> {
        return functionClasses.get(arity) ?: run {
            val result = PrimitiveKClassImpl(js("Function"), unsafeCast<JsClass<Any>>(), \
            { jsTypeOf(it) === "function" && it.asDynamic().length === arity })
            functionClasses.asDynamic()[arity] = result
            result
        }
    }

private val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)

// a package is omitted to get declarations directly under the module

import kotlin.reflect.*
import kotlin.reflect.js.internal.*

@JsName("getKClass")
internal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> =
    when (jsTypeOf(jClass)) {
        "string" ->
        PrimitiveClasses.stringClass
        "number" ->
        when (jsBitwiseOr(jClass, 0).asDynamic() === jClass)
        PrimitiveClasses.intClass
        else ->
            PrimitiveClasses.doubleClass
        "boolean" ->
        PrimitiveClasses.booleanClass
        "function" ->
        functionClass(jClass.asDynamic().length)
        "undefined" ->
        when (jClass is BooleanArray)
        PrimitiveClasses.booleanArrayClass
        else ->
            PrimitiveClasses.arrayClass
        "null" ->
            null
        else ->
            PrimitiveClasses.jClass
    }.unsafeCast<KClass<T>>()

private fun <T : Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {
    if (jClass === js("String")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()

    // code continues here...

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val metadata = jClass.asDynamic().`$metadata$`

    return if (metadata != null) {
        if (metadata.`$kClass$` == null) {
            val kClass = SimpleKClassImpl(jClass)
            metadata.`$kClass$` = kClass
            kClass
        } else {
            metadata.`$kClass$`
        }
    } else {
        SimpleKClassImpl(jClass)
    }
}

/*
 * 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.js

/**

    public override fun toString(): String

    /**
     * The lastIndex is a read/write integer property of regular expressions that specifies the index at which to start the next match.
     */
    public var lastIndex: Int

    public override fun toByteArray(): ByteArray

    /**
     * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning of the input string.
     */
    public fun reset() {
        lastIndex = 0
    }

    // TODO: Inherit from array or introduce asArray() extension

    /**
     * Represents the return value of [RegExp.exec].
     */
    @Suppress("NOT_DOCUMENTED")
    public external interface RegExpMatch {
        public val index: Int
        public val input: String
        public val length: Int

        /**
         * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent element is the text matched by each capturing parenthesis.
         */
        public inline fun asArray(): Array<out String?> = unsafeCast<Array<out String?>>()
    }

    /**
     * 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

    /**
     * Returns `true` if the contents of this string is equal to the word "true", ignoring case, and `false` otherwise.
     */
    public actual fun String.toBoolean(): Boolean = toLowerCase() == "true"

    /**
     * Parses the string as a signed [Byte] number and returns the result.
     * @throws NumberFormatException if the string is not a valid representation of a number.
     */
    public actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a signed [Short] number and returns the result.
     * @throws NumberFormatException if the string is not a valid representation of a number.
     */
    public actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a signed [Int] number and returns the result.
     * @throws NumberFormatException if the string is not a valid representation of a number.
     */
    public actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a signed [Long] number and returns the result.
     * @throws NumberFormatException if the string is not a valid representation of a number.
     */
    public actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a signed [Float] number and returns the result.
     * @throws NumberFormatException if the string is not a valid representation of a number.
     */
    public actual fun StringtoFloat(): Float = toFloatOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a signed [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 = toDoubleOrNull() ?: numberFormatError(this)

    /**
     * Parses the string as a [CharSequence] and returns the result.
     */
    public actual fun String.toString(): String = toString()

    /**
     * Parses the string as a [CharSequence] and returns the result.
     */
    public actual fun String.toString(Charset): String = toString(Charset)
as a signed [Byte] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
* @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) ?: numberFormatError(this)\n\n* Parses the string as a [Short] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
* @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) ?: numberFormatError(this)\n\n* Parses the string as a [Long] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
* @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
*}\n\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\n\n* Parses the string as a [Double] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
* @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
*}\n\npublic actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also { if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank()) numberFormatError(this) }\n\n* Parses the string as a [Float] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
* @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
*}\n\npublic actual fun String.toFloat(): Float = toDouble().unsafeCast<Float>()
\n* Parses the string as a [Double] number and returns the result.
* @throws NumberFormatException if the string is not a valid representation of a number.
*/
\n@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)
\n@SinceKotlin("1.2")
@kotlin.internal.InlineOnly
public actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)
\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))
\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) {
    "nan", "+nan", "-nan" -> true
    else -> false
}
\n/**
 * Checks whether the given [radix] is valid radix for string to number conversion.
 */
@PublishedApi
internal actual fun checkRadix(radix: Int): Int {
    if (radix !in 2..36) {
        throw IllegalArgumentException("radix $radix was not in valid range 2..36")
    }
    return radix
}
\ninternal actual 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
    else -> -1
}.let { if (it >= radix) -1 else it }


found in the license/LICENSE.txt file.

```kotlin
/**
 * Provides enumeration values to use to set regular expression options.
 */
public actual enum class RegexOption(val value: String) {
    /** Enables case-insensitive matching. */
    IGNORE_CASE("i"),
    /** Enables multiline mode. */
    MULTILINE("m")
}

/**
 * Represents the results from a single capturing group within a [MatchResult] of [Regex].
 */
public actual data class MatchGroup(actual val value: String)

/**
 * Represents a compiled regular expression.
 * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.
 */
public actual class Regex {

    /\**
     * Attempts to match the entire \[input\] CharSequence against the pattern.
     * @return An instance of \[MatchResult\] if the entire input matches or \null\ otherwise.
     */
    public actual fun matchEntire(input: CharSequence): MatchResult? {
        if (pattern.startsWith('^') && pattern.endsWith('$'))
            return find(input)
        else
            return Regex("^${pattern.trimStart('^').trimEnd('$')}$", options).find(input)
    }

    /**
     * Replaces all occurrences of this regular expression in the specified \[input\] string with specified \[replacement\] expression.
     * @param replacement A replacement expression that can include substitutions. See \[String.prototype.replace\](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.
     */
    public actual fun replace(input: CharSequence, replacement: String): String = input.nativeReplace(nativePattern, replacement)

    /**
     * Replaces all occurrences of this regular expression in the specified \[input\] string with the result of a function \[transform\] that takes \[MatchResult\] and returns a string to be used as \null\ replacement for that match.
     */
    public actual fun inline replace(input: CharSequence, transform: (MatchResult) -> String): String =
```
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```kotlin
    public fun replaceFirst(input: CharSequence, replacement: String): String {
        val nonGlobalOptions = options.map { it.value }.joinToString(separator = "")
        return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement), limit: Int = 0): List<String> {
        require(limit >= 0) { "Limit must be non-negative, but was $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
    }

    /**
     * Returns the string representation of this regular expression, namely the [pattern] 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.
     */
    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.
         */
        public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\$&")

        /**
         * Returns a literal replacement expression for the specified [literal] string.
         */
        public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "$$
```
override val groupValues: List<String?>?

    override val groupValues: List<String>
        get() {
            if (groupValues_ == null) {
                groupValues_ = object : AbstractList<String>() {
                    override val size: Int get() = match.length
                    override fun get(index: Int): String = match[index] ?: ""
                }
                return groupValues_!!
            }
            return groupValues_!!
        }

    override fun next(): MatchResult? = this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)
}

package kotlin

import kotlin.js.RegExp

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)

@kotlin.internal.InlineOnly
internal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)

/**
 * Returns `true` if this string starts with
 * the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, 0)
    else
        return regionMatches(0, prefix, 0, prefix.length, ignoreCase)
}

/**
 * Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeStartsWith(prefix, startIndex)
    else
        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)
}

/**
 * Returns `true` if this string ends with the specified suffix.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {
    if (!ignoreCase)
        return nativeEndsWith(suffix)
    else
        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)
}

/**
 * Returns a copy of this string having its first letter uppercased, or the original string, if it's empty or already starts with an upper case letter.
 * @throws [IllegalArgumentException] when n < 0.
 */
public actual fun CharSequence.repeat(n: Int): String {
    require(n >= 0) { "Count 'n' must be non-negative, but was $n." }
    return when (n) {
        0 -> ""
        1 -> this.toString()
        else -> {
            var result = ""
            if (!isEmpty()) {
                var s = this.toString()
                var count = n
                while (true) {
                    if ((count and 1) == 1) {
                        result += s
                    }
                    count = count ushr 1
                    if (count == 0) {
                        break
                    }
                    s += s
                }
            }
            return result
        }
    }
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"), newValue)
Regex.escapeReplacement(newValue))\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
  nativeReplace(RegExp(Regex.escape(oldChar.toString())), if (ignoreCase) "g\" else "g\"),
  newChar.toString())

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
  nativeReplace(RegExp(Regex.escape(oldChar.toString())), if (ignoreCase) "i\" else "\"),
  newChar.toString())

/*
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 * the license/LICENSE.txt file.
 */

package kotlin.text

public actual interface Appendable {
    public actual fun append(csq: CharSequence?): Appendable
    public actual fun append(csq: CharSequence?, start: Int, end: Int): Appendable
    public actual fun append(c: Char): Appendable
}

public actual class StringBuilder(content: String = "") : Appendable, CharSequence {
    actual constructor(capacity: Int) : this() {}

    actual constructor(content: CharSequence) : this(content.toString()) {}

    actual constructor() : this("")

    private var string: String = content

    actual override val length: Int
        get() = string.asDynamic().length

    actual override fun get(index: Int): Char =
        string.getOrElse(index) { throw IndexOutOfBoundsException("index: $index, length: $length") }

    actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence =
        string.substring(startIndex, endIndex)

    actual override fun append(c: Char): StringBuilder {
        string += c
        return this
    }

    actual override fun append(csq: CharSequence?): StringBuilder {
        string += csq.toString()
        return this
    }

    actual override fun append(csq: CharSequence?, start: Int, end: Int): StringBuilder {
        string += csq.toString().substring(start, end)
        return this
    }

    actual fun append(obj: Any?): StringBuilder {
        string += obj.toString()
        return this
    }

    actual fun reverse(): StringBuilder {
        string = string.asDynamic().split("\"\`).reverse().join("\"\")
        return this
    }

    /**
     * Clears the content of this string builder making it empty.
     * @sample
     * samples.text.Strings.clearStringBuilder
     */
    @SinceKotlin("1.3")
    public fun clear(): StringBuilder {
        string = ""
        return this
    }

    override fun toString(): String = string
}

/*
 * The exception thrown when a character encoding or decoding error occurs.
 */
@UseExperimental(ExperimentalStdlibApi::class)
private fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("Malformed sequence starting at ${index - 1}")
    return -size
}

/**
 * Returns code point corresponding to UTF-16 surrogate pair,
 * where the first of the pair is the [high] and the second is in the [string] at the [index].
 * Returns zero if the pair is malformed and [throwOnMalformed] is false.
 * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.
 * @sample
 * Text.build(String?::Exception)\n */
private fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (high !in 0xD800..0xDBFF || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val low = string[index].toInt()
    if (low !in 0xDC00..0xDFFF) {
        return malformed(0, index, throwOnMalformed)
    }
    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)
}

/*
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license/LICENSE.txt file.
*/

package kotlin.text

/**
 * Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise.
 */
@UseExperimental(ExperimentalStdlibApi::class)
private fun codePointFromUTF8Sequence(sequence: String, throwOnMalformed: Boolean): Int {
    if (throwOnMalformed) throw CharacterCodingException("UTF-8 sequence of two bytes

* where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the

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Returns zero if the sequence is malformed and `throwOnMalformed` is false.

* @throws CharacterCodingException if the sequence of two bytes is malformed and `throwOnMalformed` is true.

* private fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (byte1 and 0x1F == 0 || index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }
    return (byte1 shl 6) xor byte2 xor 0xF80
}

* private fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {
    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0) {
        if (byte2 and 0xE0 <= 0xA0) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        if (byte2 and 0xF0 != 0x80) {
            // Out of Unicode code points domain (larger than U+10FFFF)
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index, throwOnMalformed)
    } else if (byte2 and 0xC0 != 0x80) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor byte4 xor 0x381F80
}

    if (index >= endIndex) {
        return malformed(0, index, throwOnMalformed)
    }
    val byte2 = bytes[index].toInt()
    if (byte1 and 0xF == 0x0) {
        if (byte2 and 0xF0 <= 0x80) {
            // Non-shortest form
            return malformed(0, index, throwOnMalformed)
        }
    } else if (byte1 and 0xF == 0x4) {
        return malformed(0, index, throwOnMalformed)
    } else if (byte1 and 0xF > 0x4) {
        return malformed(0, index, throwOnMalformed)
    } else if (byte2 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    val byte3 = bytes[index + 1].toInt()
    if (byte3 and 0xC0 != 0x80) {
        return malformed(1, index, throwOnMalformed)
    }
    if (index + 2 == endIndex) {
        return malformed(2, index, throwOnMalformed)
    }
    val byte4 = bytes[index + 2].toInt()
    if (byte4 and 0xC0 != 0x80) {
        return malformed(2, index, throwOnMalformed)
    }
    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80
}

* const val MAX_BYTES_PER_CHAR = 3
* The byte sequence a malformed UTF-16 char sequence is replaced by.

* @param string the string to encode.
* @param startIndex the start offset (inclusive) of the substring to encode.
* @param endIndex the end offset (exclusive) of the substring to encode.
* @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n*/internal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex <= string.length &&\n    startIndex <= endIndex)\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n    var byteIndex = 0\n    var charIndex = startIndex\n    while (charIndex < endIndex) {\n        val code = string[charIndex++].toInt() when {\n            // null code\n            charIndex++ == Int.MAX_VALUE \n                \n            code < 0x80 -> \n                bytes[byteIndex++] = code.toByte()\n            byteIndex++\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,\n                endIndex, throwOnMalformed)\n                if (codePoint <= 0) {\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] = REPLACEMENT_BYTESEQUENCE[1]\n                    bytes[byteIndex++] = REPLACEMENT_BYTESEQUENCE[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 * The character a malformed UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = '\uFFFD'\n
/**\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n *\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n *\n * @param endIndex the end offset (exclusive) of the array to be encoded.\n *\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,\n    startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <= bytes.size &&\n    startIndex <= endIndex)\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n    while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt() 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(REPLACEMENT_CHAR)\n                    byteIndex += 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex,\n                throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0x0D\n                    val low = (code and 0x3FF) or 0x0DC\n                    stringBuilder.append(high.toChar())\n                    stringBuilder.append(low.toChar())\n                    byteIndex += -code\n                }\n            }\n            else -> {\n                malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n                byteIndex += 3\n            }\n        }\n    }\n    return stringBuilder.toString()\n}
SECONDS(1e9), ***/n  \* Time unit representing one minute.\n *\n MINUTES(60e9), ***/n  \* Time unit representing one hour.\n *\n HOURS(3600e9), ***/n  \* Time unit representing one day, which is always equal to 24 hours.\n *\n DAYS(86400e9);\n */n}@SinceKotlin("1.3")@ExperimentalTime\n\nactual 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}
org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface WebGLContextAttributes {
    var alpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var depth: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var stencil: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var antialias: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var premultipliedAlpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
    var preserveDrawingBuffer: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var preferLowPowerToHighPerformance: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var failIfMajorPerformanceCaveat: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["alpha"] = alpha
    o["depth"] = depth
    o["stencil"] = stencil
    o["antialias"] = antialias
    o["premultipliedAlpha"] = premultipliedAlpha
    o["preserveDrawingBuffer"] = preserveDrawingBuffer
    o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance
    o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat
    return o
}

public external abstract class WebGLObject

/**
 * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin
 */
public external abstract class WebGLBuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin
 */
public external abstract class WebGLFramebuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin
 */
public external abstract class WebGLProgram : WebGLObject

/**
 * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin
 */
public external abstract class WebGLRenderbuffer : WebGLObject

/**
 * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin
 */
public external abstract class WebGLShader : WebGLObject

/**
 * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin
 */
public external abstract class WebGLTexture : WebGLObject

/**
 * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin
 */
public external abstract class WebGLUniformLocation

/**
 * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin
 */
public external abstract class WebGLActiveInfo {
    open val size: Int
    open val type: Int
    open val name: String
}

/**
 * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin
 */
public external abstract class WebGLShaderPrecisionFormat {
    open val openVal: String
    open val precision: String
    open val rangeMin: String
    open val rangeMax: String
    open val rangeMin: String
}

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface WebGLRenderingContextBase {
    val canvas: HTMLCanvasElement
    val drawingBufferWidth: Int
    val drawingBufferHeight: Int
    fun createContextAttributes(): WebGLContextAttributes
    fun isContextLost(): Boolean
    fun getSupportedExtensions(): Array<String>
    fun getExtension(name: String): dynamic
    fun activeTexture(texture: Int)
    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)
    fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)
    fun bindBuffer(target: Int, buffer: WebGLBuffer?)
}
WebGLBuffer?)

fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)

fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)

fun bindTexture(target: Int, texture: WebGLTexture?)

fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)

fun blendEquation(mode: Int)

fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)

fun blendFunc(sfactor: Int, dfactor: Int)

fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)

fun bufferData(target: Int, size: Int, usage: Int)

fun bufferSubData(target: Int, offset: Int, data: BufferSource?)

fun checkFramebufferStatus(target: Int): Int

fun clear(mask: Int)

fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)

fun clearDepth(depth: Float)

fun clearStencil(s: Int)

fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)

fun compileShader(shader: WebGLShader?)


fun deleteBuffer(buffer: WebGLBuffer?)

fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)

fun deleteProgram(program: WebGLProgram?)

fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)

fun deleteTexture(texture: WebGLTexture?)

fun enable(cap: Int)

fun enableVertexAttribArray(index: Int)

fun drawArrays(mode: Int, first: Int, count: Int)

fun drawElements(mode: Int, count: Int, type: Int, offset: Int)

fun enable(cap: Int)

fun enableVertexAttribArray(index: Int)

fun finish()

fun flush()

fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)


fun frontFace(mode: Int)

fun generateMipmap(target: Int)

fun getActiveAttrib(program: WebGLProgram?, index: Int)

fun getActiveUniform(program: WebGLProgram?, index: Int)

fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?

fun getAttribLocation(program: WebGLProgram?, name: String): Int

fun getBufferParameter(target: Int, pname: Int): Any?

fun getBufferParameter(program: WebGLProgram?, target: Int, name: String): Any

fun getError(): Int

fun getFramebufferAttachmentParameter(target: Int, attachment: Int, name: String): Any?

fun getProgramParameter(program: WebGLProgram?, name: String): Any?

fun getProgramInfoLog(program: WebGLProgram?): String?

fun getRenderbufferParameter(program: WebGLProgram?): String?

fun getAttachments(program: WebGLProgram?): Array<WebGLShader>?

fun getAttachedLocation(program: WebGLProgram?, name: String): Int

fun getUniform(program: WebGLProgram?, location: Int, name: String): Any?

fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?

fun getVertexAttrib(index: Int, pname: Int): Any?

fun getVertexAttribOffset(index: Int, pname: Int): Int

fun hint(target: Int, mode: Int)

fun isBuffer(buffer: WebGLBuffer?): Boolean

fun isEnabled(cap: Int): Boolean

fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean

fun isProgram(program: WebGLProgram?): Boolean

fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean

fun isShader(shader: WebGLShader?): Boolean

fun isTexture(texture: WebGLTexture?): Boolean

fun linkProgram(program: WebGLProgram?)

fun pixelStorei(pname: Int, param: Int)

fun pixelStorei(pname: Int, param: Int)

fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)

fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)

fun sampleCoverage(value: Float,
NEAREST_MIPMAP_LINEAR: Int
val LINEAR_MIPMAP_LINEAR: Int
TEXTURE_MAG_FILTER: Int
val TEXTURE_MIN_FILTER: Int
val TEXTURE_WRAP_S: Int
val TEXTURE_WRAP_T: Int
val TEXTURE_WRAP_R: Int
val TEXTURE_WRAP_D: Int
val TEXTURE_WRAP_A: Int
val TEXTURE_WRAP_B: Int
val TEXTURE_WRAP_E: Int
val TEXTURE_WRAP_F: Int
val TEXTURE_WRAP_G: Int
val TEXTURE_WRAP_H: Int
val TEXTURE_WRAP_I: Int
val TEXTURE_WRAP_J: Int
val TEXTURE_WRAP_K: Int
val TEXTURE_WRAP_L: Int
val TEXTURE_WRAP_M: Int
val TEXTURE_CUBE_MAP: Int
val TEXTURE_BINDING_CUBE_MAP: Int
val TEXTURE_CUBE_MAP_POSITIVE_X: Int
val TEXTURE_CUBE_MAP_NEGATIVE_X: Int
val TEXTURE_CUBE_MAP_POSITIVE_Y: Int
val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
val TEXTURE_CUBE_MAP_POSITIVE_Z: Int
val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
val MAX_CUBE_MAP_TEXTURE_SIZE: Int
val TEXTURE0: Int
val TEXTURE1: Int
val TEXTURE2: Int
val TEXTURE3: Int
val TEXTURE4: Int
val TEXTURE5: Int
val TEXTURE6: Int
val TEXTURE7: Int
val TEXTURE8: Int
val TEXTURE9: Int
val TEXTURE10: Int
val TEXTURE11: Int
val TEXTURE12: Int
val TEXTURE13: Int
val TEXTURE14: Int
val TEXTURE15: Int
val TEXTURE16: Int
val TEXTURE17: Int
val TEXTURE18: Int
val TEXTURE19: Int
val TEXTURE20: Int
val TEXTURE21: Int
val TEXTURE22: Int
val TEXTURE23: Int
val TEXTURE24: Int
val TEXTURE25: Int
val TEXTURE26: Int
val TEXTURE27: Int
val TEXTURE28: Int
val TEXTURE29: Int
val TEXTURE30: Int
val TEXTURE31: Int
val ACTIVE_TEXTURE: Int
val REPEAT: Int
val CLAMP_TO_EDGE: Int
val MIRRORED_REPEAT: Int
val FLOAT_VEC2: Int
val FLOAT_VEC3: Int
val FLOAT_VEC4: Int
val INT_VEC2: Int
val INT_VEC3: Int
val INT_VEC4: Int
val BOOL: Int
val BOOL_VEC2: Int
val BOOL_VEC3: Int
val BOOL_VEC4: Int
val FLOAT_MAT2: Int
val FLOAT_MAT3: Int
val FLOAT_MAT4: Int
val VERTEX_ATTRIB_ARRAY_ENABLED: Int
val VERTEX_ATTRIB_ARRAY_SIZE: Int
val VERTEX_ATTRIB_ARRAY_STRIDE: Int
val VERTEX_ATTRIB_ARRAY_TYPE: Int
val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
val VERTEX_ATTRIB_ARRAY_POINTER: Int
val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
val IMPLEMENTATION_COLOR_READ_TYPE: Int
val IMPLEMENTATION_COLOR_READ_FORMAT: Int
val COMPILE_STATUS: Int
val LOW_FLOAT: Int
val MEDIUM_FLOAT: Int
val HIGH_FLOAT: Int
val LOW_INT: Int
val MEDIUM_INT: Int
val HIGH_INT: Int
val FRAMEBUFFER: Int
val RENDERBUFFER: Int
val RGBA4: Int
val RGB5_A1: Int
val RGB565: Int
val DEPTH_COMPONENT16: Int
val STENCIL_INDEX: Int
val STENCIL_INDEX8: Int
val DEPTH_STENCIL: Int
val RENDERBUFFER_WIDTH: Int
val RENDERBUFFER_HEIGHT: Int
val RENDERBUFFER_INTERNAL_FORMAT: Int
val RENDERBUFFER_RED_SIZE: Int
val RENDERBUFFER_GREEN_SIZE: Int
val RENDERBUFFER_BLUE_SIZE: Int
val RENDERBUFFER_ALPHA_SIZE: Int
val RENDERBUFFER_DEPTH_SIZE: Int
val RENDERBUFFER_STENCIL_SIZE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int
val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int
val COLOR_ATTACHMENT0: Int
val DEPTH_ATTACHMENT: Int
val STENCIL_ATTACHMENT: Int
val DEPTH_STENCIL_ATTACHMENT: Int
val NONE: Int
val FRAMEBUFFER_COMPLETE: Int
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int
val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int
val FRAMEBUFFER_UNSUPPORTED: Int
val FRAMEBUFFER_BINDING: Int
val RENDERBUFFER_BINDING: Int
val MAX_RENDERBUFFER_SIZE: Int
val INVALID_FRAMEBUFFER_OPERATION: Int
val UNPACK_FLIP_Y_WEBGL: Int
val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int
val CONTEXT_LOST_WEBGL: Int
val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int
val BROWSER_DEFAULT_WEBGL: Int
val*/n Exposes the JavaScript
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### WebGLRenderingContext

```kotlin
publication external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {
        companion object {
            val DEPTH_BUFFER_BIT: Int
            val STENCIL_BUFFER_BIT: Int
            val POINTS: Int
            val LINES: Int
            val LINE_LOOP: Int
            val LINE_STRIP: Int
            val TRIANGLES: Int
            val TRIANGLE_STRIP: Int
            val TRIANGLE_FAN: Int
            val ZERO: Int
            val ONE: Int
            val SRC_COLOR: Int
            val ONE_MINUS_SRC_COLOR: Int
            val SRC_ALPHA: Int
            val ONE_MINUS_SRC_ALPHA: Int
            val DST_ALPHA: Int
            val ONE_MINUS_DST_ALPHA: Int
            val DST_COLOR: Int
            val ONE_MINUS_DST_COLOR: Int
            val SRC_ALPHA_SATURATE: Int
            val FUNC_ADD: Int
            val BLEND_EQUATION: Int
            val BLEND_EQUATION_RGB: Int
            val BLEND_EQUATION_ALPHA: Int
            val BLEND_DST_RGB: Int
            val BLEND_DST_ALPHA: Int
            val BLEND_SRC_RGB: Int
            val BLEND_SRC_ALPHA: Int
            val CONSTANT_COLOR: Int
            val ONE_MINUS_CONSTANT_COLOR: Int
            val CONSTANT_ALPHA: Int
            val ONE_MINUS_CONSTANT_ALPHA: Int
            val ARRAY_BUFFER: Int
            val ELEMENT_ARRAY_BUFFER: Int
            val ARRAY_BUFFER_BINDING: Int
            val ELEMENT_ARRAY_BUFFER_BINDING: Int
            val STREAM_DRAW: Int
            val STATIC_DRAW: Int
            val DYNAMIC_DRAW: Int
            val BUFFER_SIZE: Int
            val CURRENT_VERTEX_ATTRIB: Int
            val FRONT: Int
            val BACK: Int
            val FRONT_AND_BACK: Int
            val CULL_FACE: Int
            val BLEND: Int
            val DITHER: Int
            val STENCIL_TEST: Int
            val DEPTH_TEST: Int
            val SCISSOR_TEST: Int
            val POLYGON_OFFSET_FILL: Int
            val SAMPLE_ALPHA_TO_COVERAGE: Int
            val NO_ERROR: Int
            val INVALID_ENUM: Int
            val INVALID_VALUE: Int
            val INVALID_OPERATION: Int
            val OUT_OF_MEMORY: Int
            val CW: Int
            val CCW: Int
            val LINE_WIDTH: Int
            val ALIASED_LINE_WIDTH_RANGE: Int
            val DEPTH_RANGE: Int
            val DEPTH_WRITEMASK: Int
            val DEPTH_CLEAR_VALUE: Int
            val DEPTH_FUNC: Int
            val STENCIL_CLEAR_VALUE: Int
            val STENCIL_FUNC: Int
            val STENCIL_FAIL: Int
            val STENCIL_PASS_DEPTH_FAIL: Int
            val STENCIL_PASS_DEPTH_PASS: Int
            val STENCIL_REF: Int
            val STENCIL_VALUE_MASK: Int
            val STENCIL_BACK_FUNC: Int
            val STENCIL_BACK_FAIL: Int
            val STENCIL_BACK_PASS_DEPTH_FAIL: Int
            val STENCIL_BACK_PASS_DEPTH_PASS: Int
            val VIEWPORT: Int
            val SCISSOR_BOX: Int
            val UNPACK_ALIGNMENT: Int
            val PACK_ALIGNMENT: Int
            val MAX_TEXTURE_SIZE: Int
            val MAX_VIEWPORT_DIMS: Int
            val SUBPIXEL_BITS: Int
            val RED_BITS: Int
            val GREEN_BITS: Int
            val BLUE_BITS: Int
            val ALPHA_BITS: Int
            val DEPTH_BITS: Int
            val STENCIL_BITS: Int
            val POLYGON_OFFSET_UNITS: Int
            val POLYGON_OFFSET_FACTOR: Int
            val TEXTURE_BINDING_2D: Int
            val SAMPLE_BUFFERS: Int
            val SAMPLES: Int
            val UNPACK_ALIGNMENT: Int
            val PACK_ALIGNMENT: Int
            val MAX_TEXTURE_SIZE: Int
            val MAX_VIEWPORT_DIMS: Int
            val SUBPIXEL_BITS: Int
            val RED_BITS: Int
            val GREEN_BITS: Int
            val BLUE_BITS: Int
            val ALPHA_BITS: Int
            val DEPTH_BITS: Int
            val STENCIL_BITS: Int
            val POLYGON_OFFSET_UNITS: Int
            val POLYGON_OFFSET_FACTOR: Int
            val TEXTURE_BINDING_2D: Int
            val SAMPLE_BUFFERS: Int
            val SAMPLES: Int
            val UNPACK_ALIGNMENT: Int
            val PACK_ALIGNMENT: Int
            val MAX_TEXTURE_SIZE: Int
            val MAX_VIEWPORT_DIMS: Int
            val SUBPIXEL_BITS: Int
            val RED_BITS: Int
            val GREEN_BITS: Int
            val BLUE_BITS: Int
            val ALPHA_BITS: Int
            val DEPTH_BITS: Int
            val STENCIL_BITS: Int
            val POLYGON_OFFSET_UNITS: Int
            val POLYGON_OFFSET_FACTOR: Int
            val TEXTURE_BINDING_2D: Int
            val SAMPLE_BUFFERS: Int
            val SAMPLES: Int
            val UNPACK_ALIGNMENT: Int
            val PACK_ALIGNMENT: Int
            val MAX_TEXTURE_SIZE: Int
            val MAX_VIEWPORT_DIMS: Int
            val SUBPIXEL_BITS: Int
            val RED_BITS: Int
            val GREEN_BITS: Int
            val BLUE_BITS: Int
            val ALPHA_BITS: Int
            val DEPTH_BITS: Int
            val STENCIL_BITS: Int
            val POLYGON_OFFSET_UNITS: Int
            val POLYGON_OFFSET_FACTOR: Int
            val TEXTURE_BINDING_2D: Int
            val SAMPLE_BUFFERS: Int
            val SAMPLES: Int
            val UNPACK_ALIGNMENT: Int
            val PACK_ALIGNMENT: Int
            val MAX_TEXTURE_SIZE: Int
            val MAX_VIEWPORT_DIMS: Int
            val SUBPIXEL_BITS: Int
            val RED_BITS: Int
            val GREEN_BITS: Int
            val BLUE_BITS: Int
            val ALPHA_BITS: Int
            val DEPTH_BITS: Int
            val STENCIL_BITS: Int
        }
    }
```
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MAX_VARYING_VECTORS: Int
MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int
MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int
MAX_TEXTURE_IMAGE_UNITS: Int
MAX_FRAGMENT_UNIFORM_VECTORS: Int
SHADER_TYPE: Int
DELETE_STATUS: Int
LINK_STATUS: Int
VALIDATE_STATUS: Int
ATTACHED_SHADERS: Int
ACTIVE_UNIFORMS: Int
ACTIVE_ATTRIBUTES: Int
SHADING_LANGUAGE_VERSION: Int
CURRENT_PROGRAM: Int
NEVER: Int
LESS: Int
EQUAL: Int
GREATER: Int
NOTEQUAL: Int
GEQUAL: Int
ALWAYS: Int
KEEP: Int
REPLACE: Int
INCR: Int
INCR_WRAP: Int
DECR: Int
DECR_WRAP: Int
VENDOR: Int
RENDERER: Int
VERSION: Int
NEAREST_MIPMAP_NEAREST: Int
LINEAR_MIPMAP_NEAREST: Int
TEXTURE_MAG_FILTER: Int
TEXTURE_MIN_FILTER: Int
TEXTURE_WRAP_S: Int
TEXTURE_WRAP_T: Int
TEXTURE_CUBE_MAP: Int
TEXTURE_CUBE_MAP_POSITIVE_X: Int
TEXTURE_CUBE_MAP_NEGATIVE_X: Int
TEXTURE_CUBE_MAP_POSITIVE_Y: Int
TEXTURE_CUBE_MAP_NEGATIVE_Y: Int
TEXTURE_CUBE_MAP_POSITIVE_Z: Int
TEXTURE_CUBE_MAP_NEGATIVE_Z: Int
MAX_CUBE_MAP_TEXTURE_SIZE: Int
TEXTURE0: Int
TEXTURE1: Int
TEXTURE2: Int
TEXTURE3: Int
TEXTURE4: Int
TEXTURE5: Int
TEXTURE6: Int
TEXTURE7: Int
TEXTURE8: Int
TEXTURE9: Int
TEXTURE10: Int
TEXTURE11: Int
TEXTURE12: Int
TEXTURE13: Int
TEXTURE14: Int
TEXTURE15: Int
TEXTURE16: Int
TEXTURE17: Int
TEXTURE18: Int
TEXTURE19: Int
TEXTURE20: Int
TEXTURE21: Int
TEXTURE22: Int
TEXTURE23: Int
TEXTURE24: Int
TEXTURE25: Int
TEXTURE26: Int
TEXTURE27: Int
TEXTURE28: Int
TEXTURE29: Int
TEXTURE30: Int
TEXTURE31: Int
ACTIVE_TEXTURE: Int
REPEAT: Int
CLAMP_TO_EDGE: Int
MIRRORED_REPEAT: Int
FLOAT_VEC2: Int
FLOAT_VEC3: Int
FLOAT_VEC4: Int
INT_VEC2: Int
INT_VEC3: Int
INT_VEC4: Int
BOOL: Int
BOOL_VEC2: Int
BOOL_VEC3: Int
BOOL_VEC4: Int
FLOAT_MAT2: Int
FLOAT_MAT3: Int
FLOAT_MAT4: Int
SAMPLER_2D: Int
SAMPLER_CUBE: Int
VERTEX_ATTRIB_ARRAY_ENABLED: Int
VERTEX_ATTRIB_ARRAY_SIZE: Int
VERTEX_ATTRIB_ARRAY_STRIDE: Int
VERTEX_ATTRIB_ARRAY_TYPE: Int
VERTEX_ATTRIB_ARRAY_NORMALIZED: Int
VERTEX_ATTRIB_ARRAY_POINTER: Int
VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int
IMPLEMENTATION_COLOR_READ_TYPE: Int
IMPLEMENTATION_COLOR_READ_FORMAT: Int
COMPILER_STATUS: Int
LOW_FLOAT: Int
MEDIUM_FLOAT: Int
HIGH_FLOAT: Int
LOW_INT: Int
MEDIUM_INT: Int
HIGH_INT: Int
FRAMEBUFFER: Int
RENDERBUFFER: Int
Rgba4: Int
Rgba5_A1: Int
Rgba565: Int
DEPTH_COMPONENT16: Int
STENCIL_INDEX: Int
STENCIL_INDEX8: Int
DEPTH_STENCIL: Int
RENDERBUFFER_WIDTH: Int
RENDERBUFFER_HEIGHT: Int
RENDERBUFFER_INTERNAL_FORMAT: Int
RENDERBUFFER_RED_SIZE: Int
RENDERBUFFER_GREEN_SIZE: Int
RENDERBUFFER_BLUE_SIZE: Int
RENDERBUFFER_ALPHA_SIZE: Int
RENDERBUFFER_DEPTH_SIZE: Int
RENDERBUFFER_STENCIL_SIZE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int
FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int
FRAMEBUFFER_ATTACHMENT_TEXTLEVEL: Int

Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin

```kotlin
/*
 * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin
 */
public external abstract class Clipboard : EventTarget {
    fun read(): Promise<DataTransfer>
    fun readText(): Promise<String>
    fun write(data: DataTransfer): Promise<Unit>
    fun writeText(data: String): Promise<Unit>
}
```

```kotlin
public external interface ClipboardPermissionDescriptor {
    var allowWithoutGesture: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {
    val o = js("({})")
    o["allowWithoutGesture"] = allowWithoutGesture
    return o
}
```

```kotlin
// NOTE: THIS FILE IS AUTOMATICALLY GENERATED, DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom.css

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.pointerevents.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external abstract class MediaList: ItemArrayLike<String> {
    open var mediaText: String
    fun appendMedium(medium: String)
    fun deleteMedium(medium: String)
    override fun item(index: Int): String?
}

@kotlin.internal.InlineOnly
public inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]

/**
 * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin
 */
public external abstract class StyleSheet {
    open var type: String
    open val href: String?
    open var ownerNode: UnionElementOrProcessingInstruction?
    open var disabled: Boolean
}

/**
 * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin
 */
public external abstract class CSSStyleSheet : StyleSheet {
    open val ownerRule: CSSRule?
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
}

/**
 * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin
 */
public external abstract class StyleSheetList: ItemArrayLike<StyleSheet> {
    override fun item(index: Int): StyleSheet?
}

@kotlin.internal.InlineOnly
public inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]

/**
 * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin
 */
public external interface LinkStyle {
    val sheet: StyleSheet?
        get() = definedExternally
}

/**
 * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin
 */
public external abstract class CSSRuleList: ItemArrayLike<CSSRule> {
    override fun item(index: Int): CSSRule?
}

@kotlin.internal.InlineOnly
public inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]

/**
 * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin
 */
public external abstract class CSSRule {
    open var type: Short
    open val cssText: String
    open val parentRule: CSSRule?
    open val parentStyleSheet: StyleSheet?

    companion object {
        val STYLE_RULE: Short
        val CHARSET_RULE: Short
        val IMPORT_RULE: Short
        val MEDIA_RULE: Short
        val MARGIN_RULE: Short
        val NAMESPACE_RULE: Short
    }
}
```
public external abstract class CSSImportRule : CSSRule
{
    open val href: String
    open val media: MediaQueryList
    open val styleSheet: CSSStyleSheet
    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 [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin
 */
public external abstract class CSSGroupingRule : CSSRule
{
    open val cssRules: CSSRuleList
    fun insertRule(rule: String, index: Int): Int
    fun deleteRule(index: Int)
    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 [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin
 */
public external abstract class CSSMediaRule : CSSGroupingRule
{
    open val media: MediaQueryList
    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 [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin
 */
public external abstract class CSSPageRule : CSSGroupingRule
{
    open var selectorText: String
    open val style: CSSStyleDeclaration
    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 [CSSMarginRule](https://developer.mozilla.org/en/docs/Web/API/CSSMarginRule) to Kotlin
 */
public external abstract class CSSMarginRule : CSSRule
{
    open val name: String
    open val style: CSSStyleDeclaration
    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 [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin
 */
public external abstract class CSSNamespaceRule : CSSRule
{
    open val namespaceURI: String
    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 val 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 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 borderTop: String
    open var borderTopBottom: String
    open var borderTopCollapse: String
    open var borderTopColor: String
    open var borderTopImage: String
    open var borderTopImageOutset: String
    open var borderTopImageRepeat: String
    open var borderTopImageSery: String
    open var borderTopImageSource: String
    open var borderTopImageWidth: String
    open var borderTopLeft: String
    open var borderTopLeftColor: String
    open var
UnionElementOrMouseEvent {
    open val screenX: Int
    open val screenY: Int
    open val clientX: Int
    open val clientY: Int
    open val ctrlKey: Boolean
    open val shiftKey: Boolean
    open val altKey: Boolean
    open val metaKey: Boolean
    open val button: Short
    open val buttons: Short
    open val relatedTarget: EventTarget?
    open val region: String?
    open val pageX: Double
    open val pageY: Double
    open val x: Double
    open val y: Double
    open val offsetX: Double
    open val offsetY: Double
    fun getModifierState(keyArg: String): Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MouseEventInit : EventModifierInit {
    var screenX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var screenY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var clientY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var button: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var buttons: Short? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var relatedTarget: EventTarget?
        get() = definedExternally
        set(value) = definedExternally
    var region: String?
        get() = definedExternally
        set(value) = definedExternally
    var ctrlKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface EventModifierInit : UIEventInit {
    var ctrlKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var shiftKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var altKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var metaKey: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierAltGraph: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierCapsLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierFn: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierFnLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierHyper: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierNumLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierScrollLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSuper: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbol: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var modifierSymbolLock: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin
 */
public external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {
    open val deltaX: Double
    open val deltaY: Double
    open val deltaZ: Double
    open val deltaMode: Int

    companion object {
        val DOM_DELTA_PIXEL: Int
        val DOM_DELTA_LINE: Int
        val DOM_DELTA_PAGE: Int
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface WheelEventInit : MouseEventInit {
    var deltaX: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaY: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaZ: Double? /* = 0.0 */
        get() = definedExternally
        set(value) = definedExternally
    var deltaMode: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    o["deltaY"] = deltaY
    o["deltaZ"] = deltaZ
    o["deltaMode"] = deltaMode
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
 */
public external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {
    open val data: String
    open val isComposing: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface InputEventInit : UIEventInit {
    var data: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isComposing: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}
get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun

    var o =
        js("{}")
    o["data"] = data
    o["isComposing"] = isComposing
    o["view"] = view
    o["detail"] =
        detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

@kotlin.internal.InlineOnly
public inline fun

    var o =
        js("{}")
    o["key"] = key
    o["code"] = code
    o["location"] = location
    o["repeat"] = repeat
    o["isComposing"] = isComposing
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFnLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

    var o =
        js("{}")
    o["data"] = data
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

    var o =
        js("{}")
    o["data"] = data
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
open val offsetLeft: Int
open val offsetWidth: Int
open val offsetHeight: Int
fun click(){}
fun focus(){}
fun blur(){}
fun forceSpellCheck(){}

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_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin
*/
public external abstract class HTMLUnknownElement : HTMLElement {
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_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin
*/
public external abstract class DOMStringMap

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]

@kotlin.internal.InlineOnly
public inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }

/**
 * Exposes the JavaScript
[HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to
Kotlin
*/
public external abstract class HTMLHtmlElement : HTMLElement {
open var version: 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_IMPLEMENTATION_SPECIFIC: Short
}

/**
 * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to
Kotlin
*/
public external abstract class HTMLHeadElement : HTMLElement

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_IMPLEMENTATION_SPECIFIC: Short
}
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[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin *
 * public external abstract class HTMLTitleElement : HTMLElement {
 *     open var text: 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
 *     }
 * }
 *
 **/
```

[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin *
 * public external abstract class HTMLBaseElement : HTMLElement {
 *     open var href: String
 *     open var target: 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
 *     }
 * }
 *
 **/
```

[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin *
 * public external abstract class HTMLLinkElement : HTMLElement, LinkStyle {
 *     open var href: String
 *     open var crossOrigin: String?
 *     open var rel: String
 *     open val `as`: RequestDestination
 *     open var media: String
 *     open var nonce: String
 *     open val sizes: DOMTokenList
 *     open var referrerPolicy: String
 *     open var charset: String
 *     open var rev: String
 *     open var target: String
 *     open var scope: String
 *     open var workerType: WorkerType
 * 
 *     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
 *     }
 * }
 *
 **/
```

[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin

```kotlin
/**
 * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin *
 * public external abstract class HTMLMetaElement : HTMLElement {
 *     open var name: String
 *     open var httpEquiv: String
 *     open var content: String
 *     open var scheme: 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_POSITIONCONTAINED_BY: Short
 *         val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 *     }
 * }
 *
 **/
```
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

*Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin*

/public external abstract class HTMLStyleElement : HTMLElement, LinkStyle {
    open var media: String
    open var nonce: String
    open var type: 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 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
    }

*Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin*

/public abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {
    open var text: String
    open var link: String
    open var vLink: String
    open var aLink: String
    open var bgColor: String
    open var background: 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 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
    }

*Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin*

/public abstract class HTMLHeadingElement : 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 DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENTPOSITION_CONTAINEDBY: Short
    }

*Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin*

/public 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 DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
        val DOCUMENTPOSITION_CONTAINEDBY: Short
    }

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/**
 * 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
    }
}

/**
 * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin */
public external abstract class HTMLOListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    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 [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin */
public external abstract class HTMLUListElement : HTMLElement {
    open var reversed: Boolean
    open var start: Int
    open var type: String
    open var compact: Boolean

    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
    }
}
open var rev: String
open var shape: 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
 [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin
 */
public external abstract class HTMLDataElement : HTMLElement {
    open var value: 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
 [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin
 */
public external abstract class HTMLTimeElement : HTMLElement {
    open var dateTime: 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
 [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin
 */
public external abstract class HTMLSpanElement : HTMLElement {
    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
 [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin
 */
public external abstract class HTMLBRElement : HTMLElement {
    open var clear: 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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/**
 */
public external interface HTMLHyperlinkElementUtils {
    var href: String
    val origin: String
    var protocol: String
    var username: String
    var password: String
    var host: String
    var hostname: String
    var port: String
    var pathname: String
    var search: String
    var hash: String
}

/**
 * Exposes the JavaScript `HTMLModElement` (https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin
 */
public external abstract class HTMLModElement : HTMLElement {
    open var cite: String
    open var dateTime: 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 `HTMLPictureElement` (https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin
 */
public external abstract class HTMLPictureElement : HTMLElement {
    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 `HTMLSourceElement` (https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin
 */
public external abstract class HTMLSourceElement : HTMLElement {
    open var src: String
    open var type: String
    open var srcset: String
    open var sizes: String
    open var media: 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 `HTMLImageElement` (https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin
 */
public external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement, TexImageSource {
    open var alt: String
    open var src: String
    open var srcset: String
    open var sizes:
String\nopen var crossOrigin: String\nopen var useMap: String\nopen var isMap: Boolean\nopen var width: Int\nopen var height: Int\nopen var naturalWidth: Int\nopen var naturalHeight: Int\nopen var complete: Boolean\nopen var currentSrc: String\nopen var referrerPolicy: String\nopen var name: String\nopen var lowsrc: String\nopen var align: String\nopen var hspace: Int\nopen var vspace: Int\nopen var longDesc: String\nopen var border: String\nopen var x: Int\nopen var y: Int\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\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    }\n}

/**
 * Exposes the JavaScript\n[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n */
public 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
    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    }\n}

/**
 * Exposes the JavaScript\n[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n */
public 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
    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    }\n}

/**
 * Exposes the JavaScript\n[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n */
public 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 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
    open val validationMessage: String
    open var align: String
    open var archive: String
    open var code: String
    open var declare: Boolean
    open var hspace: Int
    open var standby: String
    open var vspace: Int
    open var codeBase: String
    open var codeType: String
    open var border: String
    fun getSVGDocument(): Document?
    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

        fun getSVGDocument(): Document?
        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
        }
    }

    /**
     * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin
     */
    public external abstract class HTMLParamElement : HTMLElement {
        open var name: String
        open var value: String
        open var type: String
        open var valueType: String

        companion object {
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: Short
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: Short
        }
    }

    /**
     * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin
     */
    public external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {
        open var width: Int
        open var height: Int
        open val videoWidth: Int
        open val videoHeight: Int
        open var poster: String
        open var playsInline: Boolean

        companion object {
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: Short
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: Short
        }
    }

    /**
     * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin
     */
    public external abstract class HTMLAudioElement : HTMLMediaElement {
        companion object {
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: Short
            val NETWORK_EMPTY: Short
            val NETWORK_IDLE: Short
            val NETWORK_LOADING: Short
            val NETWORK_NO_SOURCE: Short
            val HAVE_NOTHING: Short
            val HAVE_METADATA: Short
            val HAVE_CURRENT_DATA: Short
            val HAVE_FUTURE_DATA: Short
            val HAVE_ENOUGH_DATA: 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 [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin
 * *
 * In public external abstract class HTMLTrackElement : HTMLElement {
 *     open var kind: String
 *     open var src: String
 *     open var srclang: String
 *     open var label: String
 *     open var default: Boolean
 *     open val readyState: Short
 *     open val track: TextTrack
 * }

/**
 * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin
 */
public external abstract class HTMLMediaElement : HTMLElement {
    open val error: MediaError?
    open var src: String
    open var srcObject: dynamic
    open val currentSrc: String
    open var crossOrigin: String?
    open val networkState: Short
    open var preload: String
    open val buffered: TimeRanges
    open val readyState: Short
    open var seeking: Boolean
    open var currentTime: Double
    open val duration: Double
    open var paused: Boolean
    open var defaultPlaybackRate: Double
    open var playbackRate: Double
    open var played: TimeRanges
    open var seekable: TimeRanges
    open var ended: Boolean
    open var autoplay: Boolean
    open var loop: Boolean
    open var controls: Boolean
    open var volume: Double
    open var muted: Boolean
    open var defaultMuted: Boolean
    open var audioTracks: AudioTrackList
    open var videoTracks: VideoTrackList
    open var textTracks: TextTrackList
    open val canPlayType: dynamic
    open val fastSeek: dynamic
    fun load()
    fun canPlayType(type: String): CanPlayTypeResult
    fun fastSeek(time: Double)
    fun getStartDate(): dynamic
    fun play(): Promise<Unit>
    fun pause()
    fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack
}

/**
 * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin
 */
public external abstract
class MediaError {
    open val code: Short

    companion object {
        val MEDIA_ERR_ABORTED: Short
        val MEDIA_ERR_NETWORK: Short
        val MEDIA_ERR_DECODE: Short
        val MEDIA_ERR_SRC_NOT_SUPPORTED: Short
    }
}

/**
 * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin
 */
public external abstract class AudioTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    open fun getTrackById(id: String): AudioTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun AudioTrackList.get(index: Int): AudioTrack? = this[index]

/**
 * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin
 */
public external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {
    open val id: String
    open val kind: String
    open val label: String
    open val language: String
    open var enabled: Boolean
}

/**
 * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin
 */
public external abstract class VideoTrackList : EventTarget {
    open val length: Int
    open val selectedIndex: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): VideoTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun VideoTrackList.get(index: Int): VideoTrack? = this[index]

/**
 * Exposes the JavaScript [TextTrackList](https://developer.mozilla.org/en/docs/Web/API/TextTrackList) to Kotlin
 */
public external abstract class TextTrackList : EventTarget {
    open val length: Int
    open var onchange: ((Event) -> dynamic)?
    open var onaddtrack: ((TrackEvent) -> dynamic)?
    open var onremovetrack: ((TrackEvent) -> dynamic)?
    fun getTrackById(id: String): TextTrack?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackList.get(index: Int): TextTrack? = this[index]

/**
 * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin
 */
public external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {
    open val kind: TextTrackKind
    open val label: String
    open val language: String
    open val id: String
    open val inBandMetadataTrackDispatchType: String
    open var mode: TextTrackMode
    open val cues: TextTrackCueList?
    open val activeCues: TextTrackCueList?
    fun addCue(cue: TextTrackCue)
    fun removeCue(cue: TextTrackCue)
}

public external abstract class TextTrackCueList {
    open val length: Int
    fun getCueById(id: String): TextTrackCue?
}

@kotlin.internal.InlineOnly
public inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = this[index]

/**
 * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin
 */
public external abstract class TextTrackCue : EventTarget {
    open val track: TextTrack?
    open var id: String
    open var startTime: Double
    open var endTime: Double
    open var pauseOnExit: Boolean
    open var onenter: ((Event) -> dynamic)?
    open var onexit: ((Event) -> dynamic)?
}

/**
 * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin
 */
public external abstract class TimeRanges {
    open val length: Int
    fun start(index: Int): Double
    fun end(index: Int): Double
}

/**
 * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin
 */
public external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {
    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
        val NONE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface TrackEventInit : EventInit {
    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

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composed: Boolean? = false): TrackEventInit {
    val o = js("{()}")
    o["track"] = track
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the
 * JavaScript
 */
public external abstract class HTMLMapElement : HTMLElement {
    open var name: String
    open val areas: HTMLCollection

    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
 */
public external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {
    open var alt: String
    open var coords: String
    open var shape: String
    open var target: String
    open var download: String
    open var ping: String
    open var rel: String
    open val relList: DOMTokenList
    open var referrerPolicy: String
    open var noHref: Boolean

    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
 */
public external abstract class HTMLTableElement : HTMLElement {
    open var caption: HTMLTableCaptionElement?
    open var tHead: HTMLTableSectionElement?
    open var tFoot: HTMLTableSectionElement?
    open val tBodies: HTMLCollection
    open val rows: HTMLCollection
    open var align: String
    open var border: String
    open var frame: String
    open var rules: String
    open var summary: String
    open var width: String
    open var bgColor: String
    open var cellPadding: String
    open var cellSpacing: String
    fun createCaption(): HTMLTableCaptionElement
    fun deleteCaption(): HTMLTableCaptionElement
    fun createTHead(): HTMLTableSectionElement
    fun deleteTHead(): HTMLTableSectionElement
    fun createTBody(): HTMLTableSectionElement
    fun deleteTBody(): HTMLTableSectionElement
    fun insertRow(index: Int = definedExternally): HTMLTableRowElement
    fun deleteRow(index: 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
    }
}
Kotlin

```kotlin
open abstract class HTMLTableCaptionElement : 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
    }
}

/**
 * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin
 */
public abstract class HTMLTableColElement : HTMLElement {
    open var span: Int
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: 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
    }
}

/**
 * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin
 */
public abstract class HTMLTableSectionElement : HTMLElement {
    open val rows: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    fun insertRow(index: Int = definedExternally): HTMLElement
    fun deleteRow(index: 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
    }
}

/**
 * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin
 */
public abstract class HTMLTableRowElement : HTMLElement {
    open val rowIndex: Int
    open val sectionRowIndex: Int
    open val cells: HTMLCollection
    open var align: String
    open var ch: String
    open var chOff: String
    open var vAlign: String
    open var bgColor: String
    fun insertCell(index: Int = definedExternally): HTMLElement
    fun deleteCell(index: 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
    }
```

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript
 [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin
 */
public external abstract class HTMLTableCellElement : HTMLElement {
    open var colSpan: Int
    open var rowSpan: Int
    open var headers: String
    open var cellIndex: Int
    open var scope: String
    open var abbr: String
    open var align: String
    open var axis: String
    open var height: String
    open var width: String
    open var ch: String
    open var chOff: String
    open var nowrap: Boolean
    open var vAlign: String
    open var bgColor: 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 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
 [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin
 */
public external abstract class HTMLFormElement : HTMLElement {
    open var acceptCharset: String
    open var action: String
    open var autocomplete: String
    open var enctype: String
    open var encoding: String
    open var method: String
    open var name: String
    open var noValidate: Boolean
    open var target: String
    open var elements: HTMLFormControlsCollection
    open var length: Int
    fun submit()
    fun reset()
    fun checkValidity(): Boolean
    fun reportValidity(): Boolean

    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 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
 [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin
 */
public external abstract class HTMLLabelElement : HTMLElement {
    open var htmlFor: String
    open var control: HTMLElement

    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 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
 [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin
 */
public external abstract class HTMLInputElement : HTMLElement {
open var var autocomplete: String
open var autofocus: Boolean
open var defaultChecked: Boolean
open var checked: Boolean
open var dirName: String
open var disabled: Boolean open var form:
HTMLFormElement?
open var files: FileList?
open var formAction: 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 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 var willValidate: Boolean
open var validity: ValidityState
open var validationMessage: String
open var open var select: Int
open var selectionEnd: Int
open var selectionDirection: 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 DOCUMENT_NODE: Short
val DOCUMENT_TYPE_NODE: Short
val DOCUMENT_FRAGMENT_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
val HTMLButtonElement
val HTMLSelectElement
open var size: Int
open val type: String
open val options: HTMLOptionsCollection
override var length: Int
open val selectedOptions: HTMLCollection
open var selectedIndex: Int
open val value: String

open val willValidate: Boolean
open val validity: ValidityState
open val validationMessage: String
open val labels: NodeList

fun namedItem(name: String): HTMLOptionElement?
fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)
fun remove(index: Int)
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

override fun item(index: Int): Element?

companion object {
val ELEMENT_NODE: Short
val ATTRIBUTE_NODE: Short
val TEXT_NODE: Short
val CDATA_SECTION_NODE: Short
val ENTITYREFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSING_INSTRUCTION_NODE: Short
val COMMENT_NODE: Short
val DOCUMENT_NODE: Short
val DOCUMENTTYPE_NODE: Short
val DOCUMENT_FRAGMENT_NODE: Short
val DOCUMENTPOSITION_DISCONNECTED: Short
val DOCUMENTPOSITION_PRECEDING: Short
val DOCUMENTPOSITION_FOLLOWING: Short
val DOCUMENTPOSITION_CONTAINS: Short
val DOCUMENTIMPLEMENTATION_SPECIFIC: Short


open val form: HTMLFormElement
open var name: String
open var type: String
open var default: String
open var value: String
open var willValidate: Boolean
open var validity: ValidationState
open var validationMessage: String
open var labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

open val form: HTMLFormElement
open var name: String
open var type: String
open var defaultValue: String
open var value: String
open var willValidate: Boolean
open var validity: ValidityState
open var validationMessage: String
open val labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)

open val form: HTMLFormElement
open var name: String
open var type: String
open var value: String
open var willValidate: Boolean
open var validity: ValidityState
open var validationMessage: String
open val labels: NodeList
fun checkValidity(): Boolean
fun reportValidity(): Boolean
fun setCustomValidity(error: String)
PROCESSING_INSTRUCTION_NODE: Short
DOCUMENT_NODE: Short
DOCUMENT_TYPE_NODE: Short
DOCUMENT_FRAGMENT_NODE: Short
NOTATION_NODE: Short
DOCUMENT_POSITION_DISCONNECTED: Short
DOCUMENT_POSITION_PRECEDING: Short
DOCUMENT_POSITION_FOLLOWING: Short
DOCUMENT_POSITION_CONTAINS: Short
DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

val COMMENT_NODE: Short

val DOCUMENT_NODE: Short
DOCUMENT_TYPE_NODE: Short
DOCUMENT_FRAGMENT_NODE: Short
NOTATION_NODE: Short
DOCUMENT_POSITION_DISCONNECTED: Short
DOCUMENT_POSITION_PRECEDING: Short
DOCUMENT_POSITION_FOLLOWING: Short
DOCUMENT_POSITION_CONTAINS: Short
DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

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RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n    open val relatedTarget: EventTarget? companion object {\n        val NONE: Short
        val CAPTURING_PHASE:
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

RelatedEventInit : EventInit {\n    var relatedTarget: EventTarget? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    }


RelatedEventInit {\n    val open var value: String
    fun show(anchor: UnionElementOrMouseEvent = definedExternally)
    fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)
    fun close(returnValue: String = definedExternally)
}

HTMLDialogElement : HTMLElement {
    open var open: Boolean
    open var returnValue: String
    fun show(anchor: UnionElementOrMouseEvent = definedExternally)
    fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)
    fun close(returnValue: String = definedExternally)
}

HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer:
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event:
    open var htmlFor: String
}

HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment
}

// Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin

// Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin

// Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin
```kotlin
/**
 * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin
 */
public external abstract class CanvasGradient {
    fun addColorStop(offset: Double, color: String)
}

/**
 * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin
 */
public external abstract class CanvasPattern {
    fun setTransform(transform: dynamic = definedExternally)
}

/**
 * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin
 */
public external abstract class TextMetrics {
    open val width: Double
    open val actualBoundingBoxLeft: Double
    open val actualBoundingBoxRight: Double
    open val fontBoundingBoxAscent: Double
    open val fontBoundingBoxDescent: Double
    open val actualBoundingBoxAscent: Double
    open val actualBoundingBoxDescent: Double
}

public external interface HitRegionOptions {
    var path: Path2D? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */
        get() = definedExternally
        set(value) = definedExternally
    var id: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var parentID: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var cursor: String? /* = "inherit" */
        get() = definedExternally
        set(value) = definedExternally
    var control: Element? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var label: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var role: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["path"] = path
    o["fillRule"] = fillRule
    o["id"] = id
    o["parentID"] = parentID
    o["cursor"] = cursor
    o["control"] = control
    o["label"] = label
    o["role"] = return o

    return o
}

/**
 * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin
 */
public external open class ImageData : ImageBitmapSource, TexImageSource {
    constructor(sw: Int, sh: Int)
    constructor(data: Uint8ClampedArray, sw: Int, sh: Int)
    open val width: Int
    open val height: Int
    open val data: Uint8ClampedArray
}

/**
 * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin
 */
public external open class Path2D() : CanvasPath {
    constructor(path: Path2D)
    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)
    constructor(d: String)
    fun addPath(path: Path2D, transform: dynamic = definedExternally)
    override fun closePath()
    override fun moveTo(x: Double, y: Double)
    override fun lineTo(x: Double, y: Double)
    override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
    override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)
    override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double)
    override fun rect(x: Double, y: Double, width: Double, height: Double)
    override fun quadraticCurveTo(cpx: Double, cpy: Double)

    override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double)
}

/**
 * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin
 */
public external abstract class ImageBitmapRenderingContext {
    open val canvas: HTMLCanvasElement
    fun transferFromImageBitmap(bitmap: ImageBitmap)
}

public external interface ImageBitmapRenderingContextSettings {
    var alpha: Boolean? /* = true */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["alpha"] = alpha
    return o
}
```

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public external abstract class CustomElementRegistry {
    fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally)
    fun get(name: String): Any?
    whenDefined(name: String): Promise<Unit>
}

public external interface ElementDefinitionOptions {
    var extends: String?
        get() = definedExternally
        set(value) = definedExternally
    return
}

public external interface ElementContentEditable {
    var contentEditable: String
    val isContentEditable: Boolean
}

/**
 * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin
 */
public external abstract class DataTransfer {
    open var dropEffect: String
    open var effectAllowed: String
    open val items: DataTransferItemList
    open val types: Array<out String>
    open val files: FileList
    fun setDragImage(image: Element, x: Int, y: Int)
    fun getData(format: String): String
    fun setData(format: String, data: String)
    fun clearData(format: String = definedExternally)
}

/**
 * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin
 */
public external abstract class DataTransferItemList {
    open val length: Int
    fun add(data: String, type: String): DataTransferItem?
    fun add(data: File): DataTransferItem?
    fun remove(index: Int)
    fun clear()
}

@kotlin.internal.InlineOnly
public inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]

/**
 * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin
 */
public external abstract class DataTransferItem {
    open val kind: String
    open val type: String
    fun getAsString(_callback: ((String) -> Unit)?)
    fun getAsFile(): File?
}

/**
 * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin
 */
public external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {
    open val dataTransfer: DataTransfer?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface DragEventInit : MouseEventInit {
    var dataTransfer: DataTransfer? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["dataTransfer"] = dataTransfer
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["button"] = button
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbol"] = modifierSymbol
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return
}

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UnionMessagePortOrWindowProxy {
    open val window: Window
    open val self: Window
    open val document: Document
    open var name: String
    open val location: Location
    open val history: History
    open val customElements: CustomElementRegistry
    open val locationbar: BarProp
    open val menubar: BarProp
    open val personalbar: BarProp
    open val scrollbars: BarProp
    open val statusbar: BarProp
    open val toolbar: BarProp
    open var status: String
    open val closed: Boolean
    open val frames: Window
    open val length: Int
    open val top: Window
    open var opener: Any?
    open val parent: Window
    open val frameElement: Element?
    open val navigator: Navigator
    open val applicationCache: ApplicationCache
    open val external: External
    open val screen: Screen
    open val innerWidth: Int
    open val innerHeight: Int
    open val devicePixelRatio: Double
    fun close()
    fun stop()
    fun focus()
    fun blur()
    fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?
    fun alert()
    fun alert(message: String)
    fun confirm(message: String = definedExternally): Boolean
    fun prompt(message: String = definedExternally, default: String = definedExternally): String?
    fun print()
    fun requestAnimationFrame(callback: (Double) -> Unit): Int
    fun cancelAnimationFrame(handle: Int)
    fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)
    fun captureEvents()
    fun releaseEvents()
    fun matchMedia(query: String): MediaQueryList
    fun moveTo(x: Int, y: Int)
    fun moveBy(x: Int, y: Int)
    fun resizeTo(x: Int, y: Int)
    fun resizeBy(x: Int, y: Int)
    fun scroll(options: ScrollToOptions = definedExternally)
    fun scroll(x: Double, y: Double)
    fun scrollTo(options: ScrollToOptions = definedExternally)
    fun scrollTo(x: Double, y: Double)
    fun scrollBy(options: ScrollToOptions = definedExternally)
    fun scrollBy(x: Double, y: Double)
    fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration
}

@kotlin.internal.InlineOnly
public inline operator fun Window.get(name: String): dynamic = asDynamic()[name]

public external abstract class BarProp {
    open val visible: Boolean
}

/**
 * Exposes the JavaScript `History` to Kotlin
 */
public external abstract class History {
    open val length: Int
    open var scrollRestoration: ScrollRestoration
    open val state: Any?
    fun go(delta: Int = definedExternally)
    fun back()
    fun forward()
    fun pushState(data: Any?, title: String, url: String? = definedExternally)
    fun replaceState(data: Any?, title: String, url: String? = definedExternally)
}

/**
 * Exposes the JavaScript `Location` to Kotlin
 */
public external abstract class Location {
    open var href: String
    open val origin: String
    open var protocol: String
    open var host: String
    open var hostname: String
    open var port: String
    open var pathname: String
    open var search: String
    open val ancestorOrigins: Array<out String>
    fun assign(url: String)
    fun replace(url: String)
    fun reload()
}

/**
 * Exposes the JavaScript `PopStateEvent` to Kotlin
 */
public external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {
    open val state: Any?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface PopStateEventInit : EventInit {
    var state: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["state"] = state
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript `HashChangeEvent` to Kotlin
 */
public external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {
    open val oldURL: String
    open val newURL: String
    open val ancestorOrigins: Array<out String>
    fun assign(url: String)
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["state"] = state
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
BUDDING_PHASE: Short

public external interface PromiseRejectionEventInit : EventInit {
    var
    promise: Promise<Any?>?
        get() = definedExternally
        set(value) = definedExternally
    var
    reason:
    Any?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun PromiseRejectionEventInit(promise:
    Boolean? = false): PromiseRejectionEventInit {
    val o = js("({})")
    o["promise"] = promise
    o["reason"] = reason
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
}
definedExternally
set(value) = definedExternally
var onpopstate: ((PopStateEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onrejectionhandled: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onstorage: ((StorageEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
var onunload: ((Event) -> dynamic)?
get() = definedExternally
set(value) = definedExternally
}

public external interface DocumentAndElementEventHandlers {
    var oncopy: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var oncut: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    var onpaste: ((ClipboardEvent) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
}

/**
 * Exposes the JavaScript
 * [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin
 * *an public external interface DocumentAndElementEventHandlers
 */
public external interface WindowOrWorkerGlobalScope {
    val origin: String
    val caches: CacheStorage
    fun btoa(data: String): String
    fun atob(data: String): String
    fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    fun clearTimeout(handle: Int = definedExternally)
    fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int
    fun clearInterval(handle: Int = definedExternally)
    fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>
    fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>
}

/**
 * Exposes the JavaScript
 * [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin
 * *an public external interface NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware
 */
public external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {
    open val clipboard: Clipboard
    open val mediaDevices: MediaDevices
    open val maxTouchPoints: Int
    open val serviceWorker: ServiceWorkerContainer
    fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)
    fun vibrate(pattern: dynamic): Boolean
}

/**
 * Exposes the JavaScript
 * [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin
 */
public external interface NavigatorID {
    val appCodeName: String
    val appName: String
    val appVersion: String
    val platform: String
    val product: String
    val productSub: String
    val userAgent: String
    val vendor: String
    val vendorSub: String
    val oscpu: String
    fun taintEnabled(): Boolean
}

/**
 * Exposes the JavaScript
 * [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin
 */
public external interface NavigatorLanguage {
    val language: String
    val languages: Array<out String>
}

public external interface NavigatorContentUtils {
    fun registerProtocolHandler(scheme: String, url: String, title: String)
    fun registerContentHandler(mimeType: String, url: String, title: String)
    fun isProtocolHandlerRegistered(scheme: String, url: String): String
    fun isContentHandlerRegistered(mimeType: String, url: String): String
    fun unregisterProtocolHandler(scheme: String, url: String)
    fun unregisterContentHandler(mimeType: String, url: String)
}

public external interface NavigatorCookies {
    val cookieEnabled: Boolean
}

/**
 * Exposes the JavaScript
 * [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin
 */
public external abstract class PluginArray : ItemArrayLike<Plugin> {
    fun refresh(reload: Boolean = definedExternally)
    override fun item(index: Int): Plugin?
    fun namedItem(name: String): Plugin?
}

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]
[MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin

```kotlin
public external abstract class MimeTypeArray : ItemArrayLike<MimeType> {
    override fun item(index: Int): MimeType?

    fun namedItem(name: String): MimeType?
}

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]/* * Exposes the JavaScript

[Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin

```kotlin
public external abstract class Plugin : ItemArrayLike<MimeType> {
    open val name: String
    open val description: String
    open val filename: String
    override fun item(index: Int): MimeType?

    fun namedItem(name: String): MimeType?
}

@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]/* * Exposes the JavaScript

[MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin

```kotlin
public external abstract class MimeType {
    open val type: String
    open val description: String
    open val suffixes: String
    open val enabledPlugin: Plugin
}

[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin

```kotlin
public external abstract class ImageBitmap : CanvasImageSource, TexImageSource {
    open val width: Int
    open val height: Int
    fun close()
}

public external interface ImageBitmapOptions {
    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */
        get() = definedExternally
        set(value) = definedExternally
    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */
        get() = definedExternally
        set(value) = definedExternally
    var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */
        get() = definedExternally
        set(value) = definedExternally
    var resizeWidth: Int?
        get() = definedExternally
        set(value) = definedExternally
    var resizeHeight: Int?
        get() = definedExternally
        set(value) = definedExternally
    var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["imageOrientation"] = imageOrientation
    o["premultiplyAlpha"] = premultiplyAlpha
    o["colorSpaceConversion"] = colorSpaceConversion
    o["resizeWidth"] = resizeWidth
    o["resizeHeight"] = resizeHeight
    return o
}

[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin

```kotlin
public external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionMessagePortOrWindowProxy?
    open val ports: Array<MessagePort>

    fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface MessageEventInit : EventInit {
    var data: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var origin: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionMessagePortOrWindowProxy? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>?
}
```

@kotlin.internal.InlineOnly
public inline fun MessageEventInit(data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)/* * Exposes the JavaScript

[MessageEventInit](https://developer.mozilla.org/en/docs/Web/API/MessageEventInit) to Kotlin

```kotlin
public external fun MessageEventInit(data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)/* * Exposes the JavaScript

[ImageBitmapOptions](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapOptions) to Kotlin

```kotlin
    val o = js("({})")
    o["imageOrientation"] = imageOrientation
    o["premultiplyAlpha"] = premultiplyAlpha
    o["colorSpaceConversion"] = colorSpaceConversion
    o["resizeWidth"] = resizeWidth
    o["resizeHeight"] = resizeHeight
    return o
}

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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 null * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin

 */\ninternal\n
open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {
    val url: String
    val withCredentials: Boolean
    val readyState: Short
    var onopen: ((Event) -> dynamic)?
    var onmessage: ((MessageEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    fun close()

    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSED: Short
    }
}

public external interface EventSourceInit : EventInit {
    get() = definedExternally
    set(value) = definedExternally
    var withCredentials: Boolean? /* = false */
    var withCredentials: Boolean? /* = false */
    var wasClean: Boolean? /* = false */
    var code: Short? /* = 0 */
    var reason: String? /* = "" */
}

@kotlin.internal.InlineOnly
public inline fun EventSourceInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventSourceInit {\n    val o = js("({})")\n    o["wasClean"] = wasClean\n    o["code"] = code\n    o["reason"] = reason\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n null * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin

 */\ninternal\n
open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {
    val url: String
    val readyState: Short
    val bufferedAmount: Number
    var onopen: ((Event) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    var onclose: ((Event) -> dynamic)?
    val extensions: String
    val protocol: String
    var onmessage: ((MessageEvent) -> dynamic)?
    var binaryType: BinaryType
    fun close(code: Short = definedExternally, reason: String = definedExternally)
    fun send(data: String)
    fun send(data: Blob)
    fun send(data: ArrayBuffer)
    fun send(data: ArrayBufferView)

    companion object {
        val CONNECTING: Short
        val OPEN: Short
        val CLOSING: Short
        val CLOSED: Short
    }
}

/**
 * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin
 */
public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {
    val wasClean: Boolean
    val code: Short
    val reason: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface CloseEventInit : EventInit {
    get() = definedExternally
    set(value) = definedExternally
    var wasClean: Boolean? /* = false */
    var code: Short? /* = 0 */
    var reason: String? /* = "" */
}

@kotlin.internal.InlineOnly
public 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    o["reason"] = reason\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n null * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin

 */\ninternal\n
open class MessageChannel {
    val port1: MessagePort
    val port2: MessagePort
}

/*
 * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin
 */
public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
    fun start()
    fun close()
}

/**
 * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin
 */
public external open class BroadcastChannel(name: String) : EventTarget {
    val name: String
    var onmessage: ((MessageEvent) -> dynamic)?
    fun postMessage(message: Any?)
    fun close()\n null * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin

 */\ninternal\n
abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {
    val self: WorkerGlobalScope
    val location: WorkerLocation
    val navigator: WorkerNavigator
    var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    var onlanguagechange: ((Event) -> dynamic)?
    var onoffline: ((Event) -> dynamic)?
    var ononline: ((Event) -> dynamic)?
    var onrejectionhandled: ((Event) -> dynamic)?

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```javascript
// Exposes the JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin

```
external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {
    open val key: String?
    open val oldValue: String?
    open val newValue: String?
    open val url: String
    open val storageArea: Storage?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface StorageEventInit : EventInit {
    var key: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var oldValue: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var newValue: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var url: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var storageArea: Storage? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["key"] = key
    o["oldValue"] = oldValue
    o["newValue"] = newValue
    o["url"] = url
    o["storageArea"] = storageArea
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    return o
}

public external abstract class HTMLAppletElement : HTMLElement {
    open var align: String
    open var alt: String
    open var archive: String
    open var code: String
    open var codeBase: String
    open var height: String
    open var hspace: Int
    open var name: String
    open var _object: String
    open var vspace: Int
    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin
 */
public external abstract class HTMLMarqueeElement : HTMLElement {
    open var behavior: String
    open var bgColor: String
    open var direction: String
    open var height: String
    open var hspace: Int
    open var loop: Int
    open var scrollAmount: Int
    open var scrollDelay: Int
    open var trueSpeed: Boolean
    open var vspace: Int
    open var width: String
    open var onbounce: ((Event) -> dynamic)?
    open var onfinish: ((Event) -> dynamic)?
    open var onstart: ((Event) -> dynamic)?
    fun start()
    fun stop()

    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin
 */
public external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {
    open var cols: String
    open var rows: 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_IMPLEMENTATION_SPECIFIC: Short
    }
}
public external abstract class HTMLFrameElement : HTMLElement {
    open var name: String
    open var scrolling: String
    open var src: String
    open var frameborder: String
    open var longdesc: String
    open var noscroll: Boolean
    open var marginheight: String
    open var marginwidth: 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
    }
}

public external abstract class HTMLDirectoryElement : HTMLElement {
    open var compact: Boolean

    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 [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin
 */
public external abstract class HTMLFontElement : HTMLElement {
    open var color: String
    open var face: String
    open var size: 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
    }
}

public external interface External {
    fun AddSearchProvider()
    fun IsSearchProviderInstalled()
}

public external interface EventInit {
    var bubbles: Boolean? /* = false */
    var cancelable: Boolean? /* = false */
    var composed: Boolean? /* = false */
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin

```kotlin
public external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally): Event {

open val detail: Any?

fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)

companion object {
    val NONE: Short
    val CAPTURING_PHASE: Short
    val AT_TARGET: Short
    val BUBBLING_PHASE: Short
}

public external interface CustomEventInit : EventInit {
    var detail: Any? /* = null */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface EventListenerOptions {
    var capture: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {
    val o = js("({})")
    o["capture"] = capture
    return o
}

public external interface AddEventListenerOptions : EventListenerOptions {
    var passive: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var once: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["passive"] = passive
    o["once"] = once
    o["capture"] = capture
    return o
}

public external interface NonElementParentNode {
    fun getElementById(elementId: String): Element?
}

/**
 * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin
 */
public external interface DocumentOrShadowRoot {
    val fullscreenElement: Element?
        get() = definedExternally
}

/**
 * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin
 */
public external interface ParentNode {
    val children: HTMLCollection
    val firstElementChild: Element?
        get() = definedExternally
    val lastElementChild: Element?
        get() = definedExternally
    val childElementCount: Int
    fun prepend(vararg nodes: dynamic)
    fun append(vararg nodes: dynamic)
    fun querySelector(selectors: String): Element?
    fun querySelectorAll(selectors: String): NodeList
}

/**
 * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin
 */
public external interface NonDocumentTypeChildNode {
    val previousElementSibling: Element?
        get() = definedExternally
    val nextElementSibling: Element?
        get() = definedExternally
}

/**
 * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin
 */
public external interface ChildNode {
    fun before(vararg nodes: dynamic)
    fun after(vararg nodes: dynamic)
    fun replaceWith(vararg nodes: dynamic)
    fun remove()
}

/**
 * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin
 */
public external interface Slotable {
    val assignedSlot: HTMLSlotElement?
        get() = definedExternally
}

/**
 * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin
 */
public external abstract class NodeList : ItemArrayLike<Node> {
    override fun item(index: Int): Node?
}

@kotlin.internal.InlineOnly

/**
 * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin
 */
public external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {
    override fun item(index: Int): Element?
    fun namedItem(name: String): Element?
}

@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]

/**
 * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin
 */
public external abstract class MutationObserver {
    fun observe(target: Element, listener: (Array<MutationRecord>, MutationObserver) -> Unit)
}
```

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observe(target: Node, options: MutationObserverInit = definedExternally)
    fun disconnect()
    fun
takeRecords(): Array<MutationRecord>
}

/**
 * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin
 */
public external interface MutationObserverInit {
    var childList: Boolean? /* = false */
        get() =
definedExternally
    set(value) = definedExternally
    var attributes: Boolean?
        get() =
definedExternally
    set(value) = definedExternally
    var characterData: Boolean?
        get() =
definedExternally
    set(value) = definedExternally
    var subtree: Boolean? /* = false */
        get() =
definedExternally
    set(value) = definedExternally
    var attributeOldValue: Boolean?
        get() =
definedExternally
    set(value) = definedExternally
    var characterDataOldValue: Boolean?
        get() =
definedExternally
    set(value) = definedExternally
    var attributeFilter: Array<String>?
        get() =
definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["childList"] = childList
    o["attributes"] = attributes
    o["characterData"] = characterData
    o["subtree"] = subtree
    o["attributeOldValue"] = attributeOldValue
    o["characterDataOldValue"] = characterDataOldValue
    o["attributeFilter"] = attributeFilter
    return o
}

/**
 * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
 */
public external abstract class MutationRecord {
    open val type: String
    open val target: Node
    open val addedNodes: NodeList
    open val removedNodes: NodeList
    open val previousSibling: Node?
    open val nextSibling: Node?
    open val attributeName: String?
    open val attributeNamespace: String?
    open val oldValue: String?
}

/**
 * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin
 */
public external abstract class Node : EventTarget {
    open val nodeType: Short
    open val nodeName: String
    open val baseURI: String
    open val isConnected: Boolean
    open val ownerDocument: Document
    open val parentNode: Node?
    open val parentElement: Element?
    open val childNodes: NodeList
    open val firstChild: Node?
    open val lastChild: Node?
    open val previousSibling: Node?
    open val nextSibling: Node?
    open var nodeValue: String?
    open var textContent: String?
    fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node
    fun hasChildNodes(): Boolean
    fun
normalize()
    fun cloneNode(deep: Boolean = definedExternally): Node
    fun replaceChild(node: Node, child: Node): Node
    fun removeChild(child: Node): Node

    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 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 interface
GetRootNodeOptions {
    var composed: Boolean? /* = false */
        get() =
definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {
    val o = js("({})")
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin
 */
public external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils

open val implementation: DOMImplementation

open val open at URL: String

open val documentURL: String

open val origin: String

open val compatMode: String

open val characterSet: String

open val inputEncoding: String

open val contentType: String

open val doctype: DocumentType

open val documentElement: Element

open val open at location: Location

var domain: String

var referrer: String

var cookie: String

var lastModified: String

var readyState: DocumentReadyState

var title: String

var dir: String

var body: HTMLElement

open val head: HTMLHeadElement

open val images: HTMLCollection

open val embeds: HTMLCollection

open val plugins: HTMLCollection

open val links: HTMLCollection

open val forms: HTMLCollection

open val scripts: HTMLCollection

open val currentScript: HTMLOrSVGScriptElement

open val defaultView: Window

open val activeElement: Element

var designMode: String

var onreadystatechange: ((Event) -> dynamic)

var fgColor: String

var linkColor: String

var vlinkColor: String

var alinkColor: String

var bgColor: String

open val anchors: HTMLCollection

open val applets: HTMLCollection

open val all: HTMLAllCollection

open val scrollingElement: Element

open val styleSheets: StyleSheetList

open val rootElement: SVGSVGElement

open val fullscrollEnabled: Boolean

open val fullscreen: Boolean

var onfullscreenchange: ((Event) -> dynamic)

var onfullscreenerror: ((Event) -> dynamic)

override var onabort: ((Event) -> dynamic)

override var onblur: ((FocusEvent) -> dynamic)

override var oncancel: ((Event) -> dynamic)

override var oncanplay: ((Event) -> dynamic)

override var oncanplaythrough: ((Event) -> dynamic)

override var onended: ((Event) -> dynamic)

override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)

override var onfocus: ((FocusEvent) -> dynamic)

override var oninput: ((InputEvent) -> dynamic)

override var onkeydown: ((KeyboardEvent) -> dynamic)

override var onkeypress: ((KeyboardEvent) -> dynamic)

override var onkeyup: ((KeyboardEvent) -> dynamic)

override var onmousedown: ((MouseEvent) -> dynamic)

override var onmouseenter: ((MouseEvent) -> dynamic)

override var onmouseleave: ((MouseEvent) -> dynamic)

override var onmousemove: ((MouseEvent) -> dynamic)

override var onmouseout: ((MouseEvent) -> dynamic)

override var onmouseover: ((MouseEvent) -> dynamic)

override var onmouseup: ((MouseEvent) -> dynamic)

override var onwheel: ((WheelEvent) -> dynamic)

override var onpause: ((Event) -> dynamic)

override var onplay: ((Event) -> dynamic)

override var onplayend: ((Event) -> dynamic)

override var onprogress: ((Event) -> dynamic)

override var onratechange: ((Event) -> dynamic)

override var onreset: ((Event) -> dynamic)

override var onresize: ((Event) -> dynamic)

override var onscroll: ((Event) -> dynamic)

override var onseeked: ((Event) -> dynamic)

override var onseeking: ((Event) -> dynamic)

override var onselect: ((Event) -> dynamic)

override var onshown: ((Event) -> dynamic)

override var onstalled: ((Event) -> dynamic)

override var onsubmit: ((Event) -> dynamic)

override var onsuspend: ((Event) -> dynamic)

override var ontimeupdate: ((Event) -> dynamic)

override var onvolumechange: ((Event) -> dynamic)

override var onvolumeupdate: ((Event) -> dynamic)

override var ongotpointercapture: ((PointerEvent) -> dynamic)

override var onlostpointercapture: ((PointerEvent) -> dynamic)

override var onpointerdown: ((PointerEvent) -> dynamic)

override var onpointermove: ((PointerEvent) -> dynamic)

override var onpointerup: ((PointerEvent) -> dynamic)

override var ontransitionend: ((TransitionEvent) -> dynamic)

override var ontransitioncancel: ((TransitionEvent) -> dynamic)

override var ontransitionstart: ((TransitionEvent) -> dynamic)
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DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENTPOSITIONIMPLEMENTATIONSPECIFIC: Short

].vn@kotlin.internal.InlineOnly

public inline operator fun Document.get(name: String): dynamic = asDynamic()?[name]vn/**\n* Exposes the JavaScript

[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin

*/\n
open class XMLDocument : Document {

    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
    }

    public external interface ElementCreationOptions {
        var `is`: String?
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    public inline fun ElementCreationOptions(`is`: String? = undefined): ElementCreationOptions {
        val o = js("({})")
        o["is"] = `is`
        return o
    }

    /**
     * Exposes the JavaScript 
     * [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation)
     * to Kotlin
     */
    public external abstract class DOMImplementation {
        fun createDocumentType(qualifiedName: String, publicId: String, systemId: String): DocumentType
        fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument
        fun createHTMLDocument(title: String = definedExternally): Document
        fun hasFeature(): Boolean
    }

    /**
     * Exposes the JavaScript 
     * [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType)
     * to Kotlin
     */
    public external abstract class DocumentType : Node, ChildNode {

        open val name: String
        open val publicId: String
        open val systemId: 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 
         * [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment)
         * to Kotlin
         */
        public external open class DocumentFragment : Node, NonElementParentNode, ParentNode {

            override val children: HTMLCollection
            override val firstElementChild: Element?
            override val lastElementChild: Element?
            override val childElementCount: Int
            override fun getElementById(elementId: String): Element?
            override fun prepend(vararg nodes: dynamic)
            override fun append(vararg nodes: dynamic)
            override fun querySelector(selectors: String): Element?
            override fun querySelectorAll(selectors: String): NodeList

            companion object {
                val ELEMENT_NODE: Short
                val ATTRIBUTE_NODE: Short
                val TEXT_NODE: Short
                val CDATA_SECTION_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
            }
        }
    }
}
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 [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin

public external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {
    open val mode: ShadowRootMode
    open val host: Element
    override val fullscreenElement: Element?

    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 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 [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin
     */
    public external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {
        open val namespaceURI: String?
        open val prefix: String?
        open val localName: String
        open val tagName: String
        open var id: String
        open var className: String
        open val classList: DOMTokenList
        open var slot: String
        open val attributes: NamedNodeMap
        open var shadowRoot: ShadowRoot?
        open var scrollTop: Double
        open var scrollLeft: Double
        open val scrollWidth: Int
        open val scrollHeight: Int
        open val clientTop: Int
        open val clientLeft: Int
        open val clientWidth: Int
        open val clientHeight: Int
        open val innerHTML: String
        open var outerHTML: String

        fun hasAttributes(): Boolean
        fun getAttributeNames(): Array<String>
        fun getAttribute(qualifiedName: String): String?
        fun getAttributeNS(namespace: String?, localName: String): String?
        fun setAttribute(qualifiedName: String, value: String)
        fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)
        fun removeAttribute(qualifiedName: String)
        fun removeAttributeNS(namespace: String?, localName: String)
        fun hasAttribute(qualifiedName: String): Boolean
        fun hasAttributeNS(namespace: String?, localName: String): Boolean
        fun getAttributeNode(qualifiedName: String): Attr?
        fun getAttributeNodeNS(namespace: String?, localName: String): Attr?
        fun setAttributeNode(attr: Attr): Attr?
        fun setAttributeNodeNS(attr: Attr): Attr?
        fun removeAttributeNode(attr: Attr): Attr?
        fun attachShadow(init: ShadowRootInit): ShadowRoot
        fun closest(selectors: String): Element?
        fun matches(selectors: String): Boolean
        fun webkitMatchesSelector(selectors: String): Boolean
        fun getElementsByTagName(qualifiedName: String): HTMLCollection
        fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
        fun insertAdjacentElement(where: String, element: Element): Element?
        fun insertAdjacentText(where: String, data: String)
        fun getClientRects(): Array<DOMRect>
        fun getBoundingClientRect(): DOMRect?
        fun scrollIntoView(): Boolean
        fun scrollIntoView(options: ScrollToOptions = definedExternally): Boolean
        fun scrollBy(options: ScrollToOptions = definedExternally): Boolean
        fun scrollBy(x: Double, y: Double)
        fun scrollBy(options: ScrollToOptions = definedExternally): Boolean
        fun scrollBy(x: Double, y: Double)
        fun insertAdjacentHTML(position: String, text: String)
        fun getElementsByClassName(classNames: String): HTMLCollection
        fun getElementsByTagName(qualifiedName: String): HTMLCollection
        fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection
        fun hasPointCapture(pointerId: Int): Boolean
        fun releasePointCapture(pointerId: Int): Boolean
        fun getPointCapture(pointerId: Int): Int
        fun requestFullscreen(): Promise<Unit>
        fun companion object {
            var ELEMENT_NODE: Short
            var ATTRIBUTE_NODE: Short
            var TEXT_NODE: Short
            var CDATA_SECTION_NODE: Short
            var ENTITY_REFERENCE_NODE: Short
            var ENTITY_NODE: Short
        }
    }

    companion object {
        /**
         * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin
         */
        public external open
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### Node Constructors

- `val COMMENT_NODE: Short
- `val DOCUMENT_NODE: Short
- `val DOCUMENT_TYPE_NODE: Short
- `val DOCUMENT_FRAGMENT_NODE: Short
- `val NOTATION_NODE: Short

### Node Position

- `val DOCUMENT_POSITION_DISCONNECTED: Short
- `val DOCUMENT_POSITION_PRECEDING: Short
- `val DOCUMENT_POSITION_FOLLOWING: Short
- `val DOCUMENT_POSITION_CONTAINS: Short

### ShadowRoot Init

```java
public external interface ShadowRootInit {
    var mode: ShadowRootMode?
        get() = definedExternally
        set(value) = definedExternally
}
```

### NamedNodeMap

```java
@kotlin.internal.InlineOnly
public inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {
    val o = js("({})")
    o["mode"] = mode
    return o
}
```

```java
/**
 * Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin
 */
public external abstract class NamedNodeMap : ItemArrayLike<Attr> {
    fun getNamedItemNS(namespace: String?, localName: String): Attr?
    fun setNamedItem(attr: Attr): Attr?
    fun setNamedItemNS(attr: Attr): Attr?
    fun removeNamedItem(qualifiedName: String): Attr
    fun removeNamedItemNS(namespace: String?, localName: String): Attr?
    override fun item(index: Int): Attr?
    fun getNamedItem(qualifiedName: String): Attr?
}
```

### Attribute

```java
@kotlin.internal.InlineOnly
public inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]
```

```java
@kotlin.internal.InlineOnly
public inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]
```

```java
/**
 * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin
 */
public external abstract class Attr : Node {
    open val namespaceURI: String?
    open val prefix: String?
    open val localName: String
    open val name: String
    open var value: String
    open val ownerElement: Element?
    open val specified: Boolean

    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
    }
}
```

```java
/**
 * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin
 */
public external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {
    open var data: String
    open var length: Int
    fun substringData(offset: Int, count: Int): String
    fun appendData(data: String)
    fun insertData(offset: Int, data: String)
    fun deleteData(offset: Int, count: Int)
    fun replaceData(offset: Int, count: Int, data: String)
}
```

```java
/**
 * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin
 */
public external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {
    open val wholeText: String
    override val assignedSlot: HTMLSlotElement?
    override val previousElementSibling: Element?
    override val nextElementSibling: Element?
    fun splitText(offset: Int): Text
    override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>
    override fun convertQuadFromNode(quad:
    dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic,
    options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad
    override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
    options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint
    override fun before(vararg nodes: dynamic)
    override fun after(vararg nodes: dynamic)
    override fun replaceWith(vararg nodes: dynamic)
    override fun remove()

    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 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 [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin
 */
public external open class CDATASection : Text {
    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 [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin
 */
public external abstract class ProcessingInstruction : CharacterData, LinkStyle,
    UnionElementOrProcessingInstruction {
    open val target: 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 [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin
 */
public external open class Comment(data: String = definedExternally) : CharacterData {
    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()

    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 DOCUMENT_NODE: Short
        val DOCUMENT_TYPE_NODE: Short
        val DOCUMENT_FRAGMENT_NODE: Short
    }
}
DOCUMENT_POSITION_DISCONNECTED: Short
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINED_BY: Short
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_FOLLOWING: Short

DOCUMENT_POSITION_PRECEDING: Short

DOCUMENT_POSITION_CONTAINED_BY: Short

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

/**
 * Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin
 */
public external open class Range {
    open val startContainer: Node
    open val startOffset: Int
    open val endContainer: Node
    open val endOffset: Int
    fun setStart(node: Node, offset: Int)
    fun setEnd(node: Node, offset: Int)
    fun setStartBefore(node: Node)
    fun setStartAfter(node: Node)
    fun setEndBefore(node: Node)
    fun setEndAfter(node: Node)
    fun collapse(toStart: Boolean = definedExternally)
    fun selectNode(node: Node)
    fun selectNodeContents(node: Node)
    fun compareBoundaryPoints(how: Short, sourceRange: Range): Short
    fun deleteContents()
    fun extractContents(): DocumentFragment
    fun cloneContents(): DocumentFragment
    fun insertNode(node: Node)
    fun surroundContents(newParent: Node: Node)
    fun cloneRange(): Range
    fun detach()
    fun isPointInRange(node: Node, offset: Int): Boolean
    fun comparePoint(node: Node, offset: Int): Short
    fun intersectsNode(node: Node: Node)
    fun getClientRects(): Array<DOMRect>
    fun getBoundingClientRect(): DOMRect
    fun createContextualFragment(fragment: String): DocumentFragment

    companion object {
        val START_TO_START: Short
        val START_TO_END: Short
        val END_TO_END: Short
        val END_TO_START: Short
    }
}

/**
 * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin
 */
public external abstract class NodeIterator {
    open val root: Node
    open val referenceNode: Node
    open val pointerBeforeReferenceNode: Boolean
    open val whatToShow: Int
    open val filter: NodeFilter?
    fun nextNode(): Node?
    fun previousNode(): Node?
    fun detach()
}

/**
 * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin
 */
public external abstract class TreeWalker {
    open val root: Node
    open val whatToShow: Int
    open val filter: NodeFilter?
    open var currentNode: Node
    fun parentNode(): Node?
    fun firstChild(): Node?
    fun lastChild(): Node?
    fun previousSibling(): Node?
    fun nextSibling(): Node?
    fun nextNode(): Node?
}

/**
 * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface NodeFilter {
    fun acceptNode(node: Node): Short

    companion object {
        val FILTER_ACCEPT: Short
        val FILTER_REJECT: Short
        val FILTER_SKIP: Short
        val SHOW_ALL: Int
        val SHOW_ELEMENT: Int
        val SHOW_ATTRIBUTE: Int
        val SHOW_TEXT: Int
        val SHOW_CDATA_SECTION: Int
        val SHOW_ENTITY_REFERENCE: Int
        val SHOW_ENTITY: Int
        val SHOW_PROCESSING_INSTRUCTION: Int
        val SHOW_COMMENT: Int
        val SHOW_DOCUMENT_FRAGMENT: Int
        val SHOW_DOCUMENT_TYPE: Int
        val SHOW_DOCUMENT: Int
        val SHOW_NOTATION: Int
        val SHOW_DOCUMENTNODE: Int
        val SHOW_NAME_NODE: Int
        val SHOW_ELEMENT_NODE: Int
        val SHOW_ATTRIBUTE_NODE: Int
        val SHOW_TEXT_NODE: Int
        val SHOW_CDATA_SECTION_NODE: Int
        val SHOW_ENTITY_REFERENCE_NODE: Int
        val SHOW_ENTITY_NODE: Int
        val SHOW_PROCESSING_INSTRUCTION_NODE: Int
        val SHOW_COMMENT_NODE: Int
        val SHOW_DOCUMENT_FRAGMENT_NODE: Int
        val SHOW_DOCUMENT_TYPE_NODE: Int
        val SHOW_DOCUMENT_NODE: Int
        val SHOW_NOTATION_NODE: Int
        val SHOW_NAME_NODE: Int
        val SHOW_ELEMENT_NODE: Int
        val SHOW_ATTRIBUTE_NODE: Int
        val SHOW_TEXT_NODE: Int
        val SHOW_CDATA_SECTION_NODE: Int
        val SHOW_ENTITY_REFERENCE_NODE: Int
        val SHOW_ENTITY_NODE: Int
        val SHOW_PROCESSING_INSTRUCTION_NODE: Int
        val SHOW_COMMENT_NODE: Int
    }
}

/**
 * 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
 */
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
}

@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
}

DOMRect : DOMRectReadOnly
    constructor(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally)
    override var x: Double
    override var y: Double
    override var width: Double
    override var height: Double

/**
 * Exposes the JavaScript
 */
public external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally)
    constructor(rect: DOMRectInit)
    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

/**
 * Exposes the JavaScript
 */
public external interface DOMRectList : ItemArrayLike<DOMRect> {
    override fun item(index: Int): DOMRect?
}

@kotlin.internal.InlineOnly
public inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]

DOMQuad : DOMQuad
    constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)
    constructor(rect: DOMRectInit)
    open val p1: DOMPoint
    open val p2: DOMPoint
    open val p3: DOMPoint
    open val p4: DOMPoint
    open val bounds: DOMRectReadOnly

/**
 * Exposes the JavaScript
 */
public external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {
    open val a: Double
    open val b: Double
    open val c: Double
    open val d: Double
    open val e: Double
    open val f: Double
    open val m11: Double
    open val m12: Double
    open val m13: Double
    open val m14: Double
    open val m21: Double
    open val m22: Double
    open val m23: Double
    open val m24: Double
    open val m31: Double
    open val m32: Double
    open val m33: Double
    open val m34: Double
    open val m41: Double
    open val m42: Double
    open val m43: Double
    open val m44: Double
    open val is2D: Boolean
    open val isIdentity: Boolean
    fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix
    fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix
    fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun scaleNonUniform(scaleX: Double, scaleY: Double, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix
    fun rotate(angle: Double, originX: Double, originY: Double, originZ: Double = definedExternally): DOMMatrix
}
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\u003c\u003ex: Double, y: Double, Double, z: Double, angle: Double): DOMMatrix\u003c\u003ex fun rotateFromVector(x: Double, y: Double): DOMMatrix\u003c\u003ex fun skewX: DOMMatrix\u003c\u003ex fun skewY: DOMMatrix\u003c\u003ex fun multiply(other: DOMMatrix): DOMMatrix\u003c\u003ex fun flipX(): DOMMatrix\u003c\u003ex fun flipY(): DOMMatrix\u003c\u003ex fun inverse(): DOMMatrix\u003c\u003ex fun transformPoint: DOMPoint\u003c\u003ex constructor(transformList: String): constructor(other: DOMMatrix\u003c\u003ex constructor(array32: Float32Array): constructor(array64: Float64Array): DOMMatrix\u003c\u003ex constructor(numberSequence: Array<Double>): Array<Double>\u003c\u003ex constructor(): DOMMatrix\u003c\u003ex fun multiplySelf(other: DOMMatrix): DOMMatrix\u003c\u003ex fun preMultiplySelf(other: DOMMatrix): DOMMatrix\u003c\u003ex fun translateSelf(tx: Double, ty: Double): DOMMatrix\u003c\u003ex fun scaleSelf(scale: Double, originX: Double = definedExternally): DOMMatrix\u003c\u003ex fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\u003c\u003ex fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\u003c\u003ex fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\u003c\u003ex fun rotateFromVectorSelf(x: Double, y: Double, z: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\u003c\u003ex fun skewXSelf(sx: Double): DOMMatrix\u003c\u003ex fun skewYSelf(sy: Double): DOMMatrix\u003c\u003ex fun invertSelf(): DOMMatrix\u003c\u003ex fun setMatrixValue(transformList: String): DOMMatrix\u003c\u003ex

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definedExternally

```kotlin
@kotlin.internal.InlineOnly
    val o = js("{}")
    o["media"] = media
    o["matches"] = matches
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

@kotlin.internal.InlineOnly
    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
```

```kotlin
/**
 * 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
```

```kotlin
/**
 * Exposes the JavaScript [ScrollIntoViewOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollIntoViewOptions) to Kotlin
 */
public external interface ScrollIntoViewOptions : ScrollOptions {
    var block:
```

```kotlin
@kotlin.internal.InlineOnly
public inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline:
```

```kotlin
@kotlin.internal.InlineOnly
public inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {
    val o = js("{}")
    o["box"] = box
    o["relativeTo"] = relativeTo
    return o
}

@kotlin.internal.InlineOnly
public inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {
    val o = js("{}")
    o["fromBox"] = fromBox
    o["toBox"] = toBox
    return o
}

/**
 * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin
 */
public external interface GeometryUtils {
    fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>
    fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad
    fun convertRectFromNode(rect:
```
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint

    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_IMPLEMENTATION_SPECIFIC: Short
    }
}

public external open class Audio(src: String = definedExternally) : HTMLAudioElement {
    override var onabort: ((Event) -> dynamic)?
    override var onblur: ((FocusEvent) -> dynamic)?
    override var oncancel: ((Event) -> dynamic)?
    override var oncanplay: ((Event) -> dynamic)?
    override var oncanplaythrough: ((Event) -> dynamic)?
    override var onchange: ((Event) -> dynamic)?
    override var onclick: ((MouseEvent) -> dynamic)?
    override var onclose: ((Event) -> dynamic)?
    override var oncontextmenu: ((MouseEvent) -> dynamic)?
    override var oncuechange: ((Event) -> dynamic)?
    override var ondblclick: ((MouseEvent) -> dynamic)?
    override var ondrag: ((DragEvent) -> dynamic)?
    override var ondragend: ((DragEvent) -> dynamic)?
    override var ondragenter: ((DragEvent) -> dynamic)?
    override var ondragleave: ((DragEvent) -> dynamic)?
    override var ondragover: ((DragEvent) -> dynamic)?
    override var ondragstart: ((DragEvent) -> dynamic)?
    override var ondurationchange: ((Event) -> dynamic)?
    override var onemptied: ((Event) -> dynamic)?
    override var onended: ((Event) -> dynamic)?
    override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
    override var onfocus: ((FocusEvent) -> dynamic)?
    override var oninput: ((InputEvent) -> dynamic)?
    override var oninvalid: ((Event) -> dynamic)?
    override var onkeydown: ((KeyboardEvent) -> dynamic)?
    override var onkeypress: ((KeyboardEvent) -> dynamic)?
    override var onkeyup: ((KeyboardEvent) -> dynamic)?
    override var onload: ((Event) -> dynamic)?
    override var onloadeddata: ((Event) -> dynamic)?
    override var onloadedmetadata: ((Event) -> dynamic)?
    override var onloadend: ((Event) -> dynamic)?
    override var onloadstart: ((ProgressEvent) -> dynamic)?
    override var onmousewheel: ((MouseWheelEvent) -> dynamic)?
    override var onmousedown: ((MouseEvent) -> dynamic)?
    override var onmouseenter: ((MouseEvent) -> dynamic)?
    override var onmouseleave: ((MouseEvent) -> dynamic)?
    override var onmousemove: ((MouseEvent) -> dynamic)?
    override var onmouseout: ((MouseEvent) -> dynamic)?
    override var onmouseover: ((MouseEvent) -> dynamic)?
    override var onmouseup: ((MouseEvent) -> dynamic)?
    override var onwheel: ((WheelEvent) -> dynamic)?
    override var oncopy: ((ClipboardEvent) -> dynamic)?
    override var oncut: ((ClipboardEvent) -> dynamic)?
override var onmouseout: ((MouseEvent) -> dynamic)?
override var onmouseover: ((MouseEvent) ->
dynamic)?
override var onmouseup: ((MouseEvent) ->
dynamic)?
override var onwheel: ((WheelEvent) ->
dynamic)?
override var onpause: ((Event) -> dynamic)?
override var onplay: ((Event) -> dynamic)?
override var onplaying: ((Event) -> dynamic)?
override var onprogress: ((ProgressEvent) ->
dynamic)?
override var onratechange: ((Event) -> dynamic)?
override var onreset: ((Event) -> dynamic)?
override var onresize: ((Event) -> dynamic)?
override var onscroll: ((Event) -> dynamic)?
override var onseeked: ((Event) -> dynamic)?
override var onseeking: ((Event) -> dynamic)?
override var onselect: ((Event) ->
dynamic)?
override var onselect: ((Event) ->
dynamic)?
override var onselect: ((Event) ->
dynamic)?
override var onstalled: ((Event) -> dynamic)?
override var onsubmit: ((Event) -> dynamic)?
override var onsuspend: ((Event) ->
dynamic)?
override var ontimeoutupdate: ((Event) ->
dynamic)?
override var onvolumechange: ((Event) ->
dynamic)?
override var onwaiting: ((Event) ->
dynamic)?
override var ononpointercapture: ((PointerEvent) ->
dynamic)?
override var onpointercapture: ((PointerEvent) ->
dynamic)?
override var onpointercapture: ((PointerEvent) ->
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@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface DocumentReadyState {
    companion object
}


@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanPlayTypeResult {
    companion object
}

public inline val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = "maybe".asDynamic().unsafeCast<CanPlayTypeResult>()

public inline val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackMode {
    companion object
}

public inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() = "disabled".asDynamic().unsafeCast<TextTrackMode>()

public inline val TextTrackMode.Companion.HIDDEN: TextTrackMode get() = "hidden".asDynamic().unsafeCast<TextTrackMode>()

public inline val TextTrackMode.Companion.SHOWING: TextTrackMode get() = "showing".asDynamic().unsafeCast<TextTrackMode>()

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface TextTrackKind {
    companion object
}

public inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = "subtitles".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = "captions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = "descriptions".asDynamic().unsafeCast<TextTrackKind>()

public inline val TextTrackKind.Companion.CHARTERS: TextTrackKind get() = "chapter\s\".asDynamic().unsafeCast<TextTrackKind>()

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SelectionMode {
    companion object
}

public inline val SelectionMode.Companion.SELECT: SelectionMode get() = "select".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.START: SelectionMode get() = "start".asDynamic().unsafeCast<SelectionMode>()

public inline val SelectionMode.Companion.END: SelectionMode get() = "end\v".asDynamic().unsafeCast<SelectionMode>()

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasFillRule {
    companion object
}

public inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = "nonzero".asDynamic().unsafeCast<CanvasFillRule>()

public inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = "evenodd".asDynamic().unsafeCast<CanvasFillRule>()

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ImageSmoothingQuality {
    companion object
}


"medium".asDynamic().unsafeCast<ImageSmoothingQuality>()


/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineCap {
    companion object
}

public inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = "butt".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = "round".asDynamic().unsafeCast<CanvasLineCap>()

public inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = "square".asDynamic().unsafeCast<CanvasLineCap>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasLineJoin {
    companion object
}

public inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = "round".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = "bevel".asDynamic().unsafeCast<CanvasLineJoin>()

public inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = "miter".asDynamic().unsafeCast<CanvasLineJoin>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextAlign {
    companion object
}

public inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = "start".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = "end".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() = "left".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() = "right".asDynamic().unsafeCast<CanvasTextAlign>()

public inline val CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() = "center".asDynamic().unsafeCast<CanvasTextAlign>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasTextBaseline {
    companion object
}

public inline val CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() = "top".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() = "hanging".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() = "middle".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() = "alphabetic".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() = "ideographic".asDynamic().unsafeCast<CanvasTextBaseline>()

public inline val CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() = "bottom".asDynamic().unsafeCast<CanvasTextBaseline>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CanvasDirection {
    companion object
}

public inline val CanvasDirection.Companion.LTR: CanvasDirection get() = "ltr".asDynamic().unsafeCast<CanvasDirection>()

public inline val CanvasDirection.Companion.RTL: CanvasDirection get() = "rtl".asDynamic().unsafeCast<CanvasDirection>()

public inline val CanvasDirection.Companion.INHERIT: CanvasDirection get() = "inherit".asDynamic().unsafeCast<CanvasDirection>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ScrollRestoration {
    companion object
}

public inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() = "auto".asDynamic().unsafeCast<ScrollRestoration>()


/* please, don't implement this interface! */
public external interface ImageOrientation {
    companion object
}


public external interface PremultiplyAlpha {
    companion object
}

public inline val PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() = "none".asDynamic().unsafeCast<PremultiplyAlpha>()

public inline val PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() = "premultiply".asDynamic().unsafeCast<PremultiplyAlpha>()

public external interface ColorSpaceConversion {
    companion object
}

public inline val ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() = "none".asDynamic().unsafeCast<ColorSpaceConversion>()

public inline val ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() = "default".asDynamic().unsafeCast<ColorSpaceConversion>()

public external interface ResizeQuality {
    companion object
}

public inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() = "pixelated".asDynamic().unsafeCast<ResizeQuality>()

public inline val ResizeQuality.Companion.LOW: ResizeQuality get() = "low".asDynamic().unsafeCast<ResizeQuality>()

public inline val ResizeQuality.Companion.MEDIUM: ResizeQuality get() = "medium".asDynamic().unsafeCast<ResizeQuality>()

public inline val ResizeQuality.Companion.HIGH: ResizeQuality get() = "high".asDynamic().unsafeCast<ResizeQuality>()

public external interface BinaryType {
    companion object
}

public inline val BinaryType.Companion.BLOB: BinaryType get() = "blob".asDynamic().unsafeCast<BinaryType>()

public inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() = "arraybuffer".asDynamic().unsafeCast<BinaryType>()

public external interface WorkerType {
    companion object
}

public inline val WorkerType.Companion.CLASSIC: WorkerType get() = "classic".asDynamic().unsafeCast<WorkerType>()

public inline val WorkerType.Companion.MODULE: WorkerType get() = "module".asDynamic().unsafeCast<WorkerType>()

public external interface ShadowRootMode {
    companion object
}

public inline val ShadowRootMode.Companion.OPEN: ShadowRootMode get() = "open".asDynamic().unsafeCast<ShadowRootMode>()

public inline val ShadowRootMode.Companion.CLOSED: ShadowRootMode get() = "closed".asDynamic().unsafeCast<ShadowRootMode>()

public external interface ScrollBehavior {
    companion object
}

public inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() = "auto".asDynamic().unsafeCast<ScrollBehavior>()

public inline val ScrollBehavior.Companion.INSTANT: ScrollBehavior get() = "instant".asDynamic().unsafeCast<ScrollBehavior>()

public inline val ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() = "smooth".asDynamic().unsafeCast<ScrollBehavior>()

public external interface ScrollLogicalPosition {
    companion object
}


public inline val ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() = "center".asDynamic().unsafeCast<ScrollLogicalPosition>()

public inline val ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() = "end".asDynamic().unsafeCast<ScrollLogicalPosition>()
"end\".asDynamic().unsafeCast<ScrollLogicalPosition>().unwrap() public inline val ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() = "nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface CSSBoxType {
    companion object
}

public inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() = "margin".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.BORDER: CSSBoxType get() = "border".asDynamic().unsafeCast<CSSBoxType>()

public inline val CSSBoxType.Companion.PADDING: CSSBoxType get() = "padding".asDynamic().unsafeCast<CSSBoxType>()

/*
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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.
 */

// NOTE: THIS FILE IS AUTO-GENERATED,
// DO NOT EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.fetch

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

/**
 * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin
 */
public external open class Headers(init: dynamic = definedExternally) {
    fun append(name: String, value: String)
    fun delete(name: String)
    fun get(name: String): String?
    fun has(name: String): Boolean
    fun set(name: String, value: String)
}

/**
 * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to Kotlin
 */
public external interface Body {
    val bodyUsed: Boolean
    fun arrayBuffer(): Promise<ArrayBuffer>
    fun blob(): Promise<Blob>
    fun formData(): Promise<FormData>
    fun json(): Promise<Any?>
    fun text(): Promise<String>
}

/**
 * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin
 */
public external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {
    open val method: String
    open val url: String
    open val headers: Headers
    open val type: RequestType
    open val destination: RequestDestination
    open val referrer: String
    open val referrerPolicy: dynamic
    open val mode: RequestMode
    open val credentials: RequestCredentials
    open val cache: RequestCache
    open val redirect: RequestRedirect
    open val integrity: String
    open val keepalive: Boolean
    override val bodyUsed: Boolean
    fun clone(): Request
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>

    public external interface RequestInit {
        var method: String?
            get() = definedExternally
            set(value) = definedExternally
        var headers: dynamic
            get() = definedExternally
            set(value) = definedExternally
        var body: dynamic
            get() = definedExternally
            set(value) = definedExternally
        var referrer: String?
            get() = definedExternally
            set(value) = definedExternally
        var referrerPolicy: dynamic
            get() = definedExternally
            set(value) = definedExternally
        var mode: RequestMode
            get() = definedExternally
            set(value) = definedExternally
        var credentials: RequestCredentials
            get() = definedExternally
            set(value) = definedExternally
        var cache: RequestCache
            get() = definedExternally
            set(value) = definedExternally
        var integrity: String?
            get() = definedExternally
            set(value) = definedExternally
        var keepalive: Boolean?
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
    val o = js("({})")
    o["method"] = method
    o["headers"] = headers
    o["body"] = body
    o["referrer"] = referrer
    o["referrerPolicy"] = referrerPolicy
    o["mode"] = mode
    o["credentials"] = credentials
    o["cache"] = cache
    o["redirect"] = redirect
    o["integrity"] = integrity
    o["keepalive"] = keepalive
    o["window"] = window
    return o
}

/**
 * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin
 */
public external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally): Body {
    open val type: ResponseType
    open val url: String
    open val redirected: Boolean
    open val status: Short
    open val ok: Boolean
    open val statusText: String
    open val headers: Headers
    open val body: dynamic
    open val trailer: Promise<Headers>

    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun json(): Promise<Any?>
    override fun text(): Promise<String>

    companion object {
        fun error(): Response
        fun redirect(url: String, status: Short = definedExternally): Response
    }
}

public external interface ResponseInit {
    var status: Short? /* = 200 */
        get() = definedExternally
        set(value) = definedExternally
    var statusText: String? /* = "OK" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["status"] = status
    o["statusText"] = statusText
    o["headers"] = headers
    return o
}

/* please, don't implement
this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestType {
    companion object
}

public inline val RequestType.Companion.EMPTY: RequestType get() = "".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.AUDIO: RequestType get() = "audio".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.FONT: RequestType get() = "font".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.IMAGE: RequestType get() = "image".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.SCRIPT: RequestType get() = "script".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.STYLE: RequestType get() = "style".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.TRACK: RequestType get() = "track".asDynamic().unsafeCast<RequestType>()

public inline val RequestType.Companion.VIDEO: RequestType get() = "video".asDynamic().unsafeCast<RequestType>()

/* please, don't implement this interface!
*/
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestDestination {
    companion object
}

public inline val RequestDestination.Companion.EMPTY: RequestDestination get() = "".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = "document".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.EMBED: RequestDestination get() = "embed".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.FONT: RequestDestination get() = "font".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.IMAGE: RequestDestination get() = "image".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = "manifest".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.MEDIA: RequestDestination get() = "media".asDynamic().unsafeCast<RequestDestination>()

RequestDestination.Companion.OBJECT: RequestDestination get() = "object".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.REPORT: RequestDestination get() = "report".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = "script".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = "serviceworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = "sharedworker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.STYLE: RequestDestination get() = "style".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.WORKER: RequestDestination get() = "worker".asDynamic().unsafeCast<RequestDestination>()

public inline val RequestDestination.Companion.XSLT: RequestDestination get() = "xslt".asDynamic().unsafeCast<RequestDestination>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestMode {
    companion object
}

public inline val RequestMode.Companion.NAVIGATE: RequestMode get() = "navigate".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = "same-origin".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.NO_CORS: RequestMode get() = "no-cors".asDynamic().unsafeCast<RequestMode>()

public inline val RequestMode.Companion.CORS: RequestMode get() = "cors".asDynamic().unsafeCast<RequestMode>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCredentials {
    companion object
}

public inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = "omit".asDynamic().unsafeCast<RequestCredentials>()

public inline val RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = "same-origin".asDynamic().unsafeCast<RequestCredentials>()

public inline val RequestCredentials.Companion.INCLUDE: RequestCredentials get() = "include".asDynamic().unsafeCast<RequestCredentials>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestCache {
    companion object
}

public inline val RequestCache.Companion.DEFAULT: RequestCache get() = "default".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.NO_STORE: RequestCache get() = "no-store".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.RELOAD: RequestCache get() = "reload".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.NO_CACHE: RequestCache get() = "no-cache".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.FORCE_CACHE: RequestCache get() = "force-cache".asDynamic().unsafeCast<RequestCache>()

public inline val RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = "only-if-cached".asDynamic().unsafeCast<RequestCache>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface RequestRedirect {
    companion object
}

public inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = "follow".asDynamic().unsafeCast<RequestRedirect>()

public inline val RequestRedirect.Companion.ERROR: RequestRedirect get() = "error".asDynamic().unsafeCast<RequestRedirect>()

public inline val RequestRedirect.Companion.MANUAL: RequestRedirect get() = "manual".asDynamic().unsafeCast<RequestRedirect>()

/* please, don't implement this interface! */
public external interface ResponseType{
    companion object
}

public inline val ResponseType.Companion.BASIC: ResponseType get() = "basic".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.CORS: ResponseType get() = "cors".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.DEFAULT: ResponseType get() = "default".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.ERROR: ResponseType get() = "error".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.OPAQUE: ResponseType get() = "opaque".asDynamic().unsafeCast<ResponseType>()

public inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = "opaqueredirect".asDynamic().unsafeCast<ResponseType>()
get() = definedExternally
set(value) = definedExternally
var latency: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally
var channelCount: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally
var deviceId: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally
var groupId: Boolean? /* = true */
get() = definedExternally
set(value) = definedExternally

@kotlin.internal.InlineOnly
public 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:
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {
    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
}

public external interface MediaTrackCapabilities {
    var width: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var height: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var aspectRatio: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var frameRate: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var facingMode: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
    var resizeMode: Array<String>?
    get() = definedExternally
    set(value) = definedExternally
    var volume: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var sampleSize: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: Array<Boolean>?
    get() = definedExternally
    set(value) = definedExternally
    var latency: DoubleRange?
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: ULongRange?
    get() = definedExternally
    set(value) = definedExternally
    var deviceId: String?
    get() = definedExternally
    set(value) = definedExternally
    var groupId: String?
    get() = definedExternally
    set(value) = definedExternally
}

@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,
    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
}

@kotlin.internal.InlineOnly
public inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined)
    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
        get() = definedExternally
        set(value) = definedExternally
}

/**
 * Exposes the JavaScript
 [*MediaTrackSettings*](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin
 */
public external interface MediaTrackSettings {
    var width: Int?
        get() = definedExternally
        set(value) = definedExternally
    var height: Int?
        get() = definedExternally
        set(value) = definedExternally
    var aspectRatio: Double?
        get() = definedExternally
        set(value) = definedExternally
    var frameRate: Double?
        get() = definedExternally
        set(value) = definedExternally
    var facingMode: String?
        get() = definedExternally
        set(value) = definedExternally
    var sampleRate: String?
        get() = definedExternally
        set(value) = definedExternally
    var sampleSize: Int?
        get() = definedExternally
        set(value) = definedExternally
    var deviceId: String?
        get() = definedExternally
        set(value) = definedExternally
    var groupId: String?
        get() = definedExternally
        set(value) = definedExternally
    var channelCount: Int?
        get() = definedExternally
        set(value) = definedExternally
    var latency: Int?
        get() = definedExternally
        set(value) = definedExternally
    var noiseSuppression: Int?
        get() = definedExternally
        set(value) = definedExternally
    var autoGainControl: String?
        get() = definedExternally
        set(value) = definedExternally

[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin
*/
Open Source Used In UCM Cloud Analyzer Service 1.0

```kotlin
definedExternally
set(value) = definedExternally

MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {
    val o = js("{"video": "video", "audio": "audio"}")
    return o
}

ConstrainablePattern {on overconstrained: ((Event) -> dynamic)?
    get() = definedExternally

@kotlin.internal.InlineOnly
public inline fun

MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {
    val o = js("{"video": "video", "audio": "audio"}")
    return o
}

ConstrainablePattern {on overconstrained: ((Event) -> dynamic)?
    get() = definedExternally

public external interface

ConstrainablePattern {
    var onoverconstrained: ((Event) -> dynamic)?
        get() = definedExternally
        set(value) = definedExternally
    fun getCapabilities(): Capabilities
    fun getConstraints(): Constraints
    fun getSettings(): Settings
    fun applyConstraints(constraints: Constraints): Constraints

Promise<Unit>?

* Exposes the JavaScript
[DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin

```
return o
}

/* please, don’t implement this interface!
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface MediaStreamTrackState {
    companion object
}

public inline val MediaStreamTrackState.Companion.LIVE:
MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()

public inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()

/* please, don’t implement this interface!
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoFacingModeEnum {
    companion object
}

public inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()


public inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()

public inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()

/* please, don’t implement this interface!
 */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface VideoResizeModeEnum {
    companion object
}

public inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()


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 kotlin programming language contributors.
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 can be found in the license/license.txt file.
 */

// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
// EDIT!
// See github.com/kotlin/dukat for details

package org.w3c.dom.pointerevents

import kotlin.js.*
import org.khronos.webgl.*
import org.w3c.css.masking.*
import org.w3c.dom.*
import org.w3c.dom.clipboard.*
import org.w3c.dom.css.*
import org.w3c.dom.events.*
import org.w3c.dom.mediacapture.*
import org.w3c.dom.parsing.*
import org.w3c.dom.svg.*
import org.w3c.dom.url.*
import org.w3c.fetch.*
import org.w3c.files.*
import org.w3c.notifications.*
import org.w3c.performance.*
import org.w3c.workers.*
import org.w3c.xhr.*

public external interface PointerEventInit : MouseEventInit {
    var pointerId: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var width: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var height: Double? /* = 1.0 */
        get() = definedExternally
        set(value) = definedExternally
    var pressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tangentialPressure: Float? /* = 0f */
        get() = definedExternally
        set(value) = definedExternally
    var tiltX: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var tiltY: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var twist: Int? /* = 0 */
        get() = definedExternally
        set(value) = definedExternally
    var pointerType: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
    var isPrimary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f,
    val o = js("({})")
    o["pointerId"] = pointerId
    o["width"] = width
    o["height"] = height
    o["pressure"] = pressure
    o["tangentialPressure"] = tangentialPressure
    o["tiltX"] = tiltX
    o["tiltY"] = tiltY
    o["twist"] = twist
    o["pointerType"] = pointerType
    o["isPrimary"] = isPrimary
    o["screenX"] = screenX
    o["screenY"] = screenY
    o["clientX"] = clientX
    o["clientY"] = clientY
    o["buttons"] = buttons
    o["relatedTarget"] = relatedTarget
    o["region"] = region
    o["ctrlKey"] = ctrlKey
    o["shiftKey"] = shiftKey
    o["altKey"] = altKey
    o["metaKey"] = metaKey
    o["modifierAltGraph"] = modifierAltGraph
    o["modifierCapsLock"] = modifierCapsLock
    o["modifierFn"] = modifierFn
    o["modifierFmLock"] = modifierFnLock
    o["modifierHyper"] = modifierHyper
    o["modifierNumLock"] = modifierNumLock
    o["modifierScrollLock"] = modifierScrollLock
    o["modifierSuper"] = modifierSuper
    o["modifierSymbolLock"] = modifierSymbolLock
    o["view"] = view
    o["detail"] = detail
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin
 */
public external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {
    open val pointerId: Int
    open val width: Double
    open val height: Double
    open val pressure: Float
    open val tangentialPressure: Float
    open val tiltX: Int
    open val tiltY: Int
    open val twist: Int
    open val pointerType: String
    open val isPrimary: Boolean

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}
SVGBoundingBoxOptions {\n    var fill: Boolean? /* = true */
    get() = definedExternally
    set(value) = definedExternally

    var stroke: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally

    var markers: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally

    var clipped: Boolean? /* = false */
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun SVGBoundingBoxOptions(fill: Boolean? /* = true */, stroke: Boolean? /* = false */, markers: Boolean? /* = false */, clipped: Boolean? /* = false */): SVGBoundingBoxOptions {
    val o = js("({})")
    o["fill"] = fill
    o["stroke"] = stroke
    o["markers"] = markers
    o["clipped"] = clipped
    return o
}

/**
 * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin
 */
public external abstract class SVGGraphicsElement : SVGElement, SVGTests {
    open val transform: SVGAnimatedTransformList
    fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect
    fun getCTM(): DOMMatrix?
    fun getScreenCTM(): DOMMatrix?

    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 [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin
 */
public external abstract class SVGGeometryElement : SVGGraphicsElement {
    open val pathLength: SVGAnimatedNumber
    fun isPointInFill(point: DOMPoint): Boolean
    fun isPointInStroke(point: DOMPoint): Boolean
    fun getTotalLength(): Float
    fun getPointAtLength(distance: Float): DOMPoint

    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 [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin
 */
public external abstract class SVGNumber {
    open var value: Float
}

/**
 * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin
 */
public external abstract class SVGLength {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)

    companion object {
        val SVG_LENGTHTYPE_UNKNOWN: Short
        val SVG_LENGTHTYPE_NUMBER: Short
        val SVG_LENGTHTYPE_PERCENTAGE: Short
        val SVG_LENGTHTYPE_EMS: Short
        val SVG_LENGTHTYPE_EXS: Short
        val SVG_LENGTHTYPE_CM: Short
        val SVG_LENGTHTYPE_MM: Short
        val SVG_LENGTHTYPE_IN: Short
        val SVG_LENGTHTYPE_PT: Short
        val SVG_LENGTHTYPE_PC: Short
        val SVG_LENGTHTYPE_UNKNOWN: Short
        val SVG_LENGTHTYPE_NUMBER: Short
        val SVG_LENGTHTYPE_PERCENTAGE: Short
        val SVG_LENGTHTYPE_EMS: Short
        val SVG_LENGTHTYPE_EXS: Short
        val SVG_LENGTHTYPE_CM: Short
        val SVG_LENGTHTYPE_MM: Short
        val SVG_LENGTHTYPE_IN: Short
        val SVG_LENGTHTYPE_PT: Short
        val SVG_LENGTHTYPE_PC: Short
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_NUMBER: Short
        val SVG_ANGLETYPE_DEGREES: Short
        val SVG_ANGLETYPE_RADIANS: Short
        val SVG_ANGLETYPE_GRADIENT: Short
        val SVG_ANGLETYPE_GRADIENT_100: Short
    }
}

/**
 * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin
 */
public external abstract class SVGAngle {
    open val unitType: Short
    open var value: Float
    open var valueInSpecifiedUnits: Float

    companion object {
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_NUMBER: Short
        val SVG_ANGLETYPE_DEGREES: Short
        val SVG_ANGLETYPE_RADIANS: Short
        val SVG_ANGLETYPE_GRADIENT: Short
        val SVG_ANGLETYPE_GRADIENT_100: Short
    }
}
Float
    open var valueAsString: String
    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)
    fun convertToSpecifiedUnits(unitType: Short)
    companion object {
        val SVG_ANGLETYPE_UNKNOWN: Short
        val SVG_ANGLETYPE_UNSPECIFIED: Short
        val SVG_ANGLETYPE_DEG: Short
        val SVG_ANGLETYPE_RAD: Short
        val SVG_ANGLETYPE_GRAD: Short
    }
}

public external abstract class SVGNameList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: dynamic): dynamic
    fun insertItemBefore(newItem: dynamic, index: Int): dynamic
    fun replaceItem(newItem: dynamic, index: Int): dynamic
    fun removeItem(index: Int): dynamic
    fun appendItem(newItem: dynamic): dynamic
    fun getItem(index: Int): dynamic
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin
 */
public external abstract class SVGNumberList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGNumber): SVGNumber
    fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber
    fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber
    fun removeItem(index: Int): SVGNumber
    fun appendItem(newItem: SVGNumber): SVGNumber
    fun getItem(index: Int): SVGNumber
}

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin
 */
public external abstract class SVGLengthList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: SVGLength): SVGLength
    fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength
    fun replaceItem(newItem: SVGLength, index: Int): SVGLength
    fun removeItem(index: Int): SVGLength
    fun appendItem(newItem: SVGLength): SVGLength
    fun getItem(index: Int): SVGLength
}

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin
 */
public external abstract class SVGAnimatedBoolean {
    open var baseVal: Boolean
    open val animVal: Boolean
}

/**
 * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin
 */
public external abstract class SVGAnimatedEnumeration {
    open var baseVal: Short
    open val animVal: Short
}

/**
 * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin
 */
public external abstract class SVGAnimatedInteger {
    open var baseVal: Int
    open val animVal: Int
}

/**
 * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin
 */
public external abstract class SVGAnimatedNumber {
    open var baseVal: Float
    open val animVal: Float
}

/**
 * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin
 */
public external abstract class SVGAnimatedLength {
    open var baseVal: SVGLength
    open val animVal: SVGLength
}

/**
 * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin
 */
public external abstract class SVGAnimatedAngle {
    open var baseVal: SVGAngle
    open val animVal: SVGAngle
}

/**
 * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin
 */
public external abstract class SVGAnimatedString {
    open var baseVal: String
    open val animVal: String
}
* Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin

```java
public external abstract class SVGAnimatedRect {
    open val baseVal: DOMRect
    open val animVal: DOMRectReadOnly
}
```

* Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin

```java
public external abstract class SVGAnimatedNumberList {
    open val baseVal: SVGNumberList
    open val animVal: SVGNumberList
}
```

* Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin

```java
public external abstract class SVGAnimatedLengthList {
    open val baseVal: SVGLengthList
    open val animVal: SVGLengthList
}
```

* Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin

```java
public external abstract class SVGStringList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: String): String
    fun insertItemBefore(newItem: String, index: Int): String
    fun replaceItem(newItem: String, index: Int): String
    fun removeItem(index: Int): String
    fun appendItem(newItem: String): String
    fun getItems(index: Int): String
}
```

```kotlin
@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }
```

* Exposes the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin

```java
public external interface SVGUnitTypes {
    companion object {
        val SVG_UNIT_TYPE_UNKNOWN: Short
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short
        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
    }
}
```

* Exposes the JavaScript [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin

```java
public external interface SVGTests {
    val requiredExtensions: SVGStringList
    val systemLanguage: SVGStringList
}
```

* Exposes the JavaScript [SVGFitToViewBox](https://developer.mozilla.org/en/docs/Web/API/SVGFitToViewBox) to Kotlin

```java
public external interface SVGFitToViewBox {
    val viewBox: SVGAnimatedRect
    val preserveAspectRatio: SVGAnimatedPreserveAspectRatio
}
```

* Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin

```java
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface SVGZoomAndPan {
    var zoomAndPan: Short

    companion object {
        val SVG_ZOOMANDPAN_UNKNOWN: Short
        val SVG_ZOOMANDPAN_DISABLE: Short
        val SVG_ZOOMANDPAN_MAGNIFY: Short
    }
}
```

* Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin

```java
public external interface SVGURIReference {
    val href: SVGAnimatedString
}
```

* Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin

```java
public external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
    open var currentScale: Float
    open val currentTranslate: DOMPointReadOnly
    fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGSVGElement): NodeList
    fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGSVGElement): NodeList
    fun checkIntersection(element: SVGSVGElement, rect: DOMRectReadOnly): Boolean
    fun checkEnclosure(element: SVGSVGElement, rect: DOMRectReadOnly): Boolean
    fun deselectAll(): DOMPointReadOnly
    fun createSVGNumber(): SVGNumber
    fun createSVGLength(): SVGLength
    fun createSVGAngle(): SVGAngle
    fun createSVGPoint(): DOMPoint
    fun createSVGMT(): DOMMatrix
    fun createSVGRect(): DOMRect
    fun createSVGTransform(): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun getElementById(elementId: String): Element
    fun suspendRedraw(maxWaitMilliseconds: Int): Void
    fun unsuspendRedraw(suspendHandleID: Int): Void
    fun unsuspendRedrawAll(): Void
    fun forceRedraw(): Void
}
```
Short

val SVG_ZOOMANDPAN_MAGNIFY: 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
[SVGGElem](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin
public external
abstract class SVGGElement : SVGGraphicsElement {
    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
    }
}

public external abstract class SVGUnknownElement : SVGGraphicsElement {
    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
[SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin
 */
public external abstract class SVGDefsElement : SVGGraphicsElement {
    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
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDdescElement) to Kotlin
 */

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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

\*/

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DOCUMENT_POSITION_DISCONNECTED: Short
DOCUMENT_POSITION_PRECEDING: Short
DOCUMENT_POSITION_FOLLOWING: Short
DOCUMENT_POSITION_CONTAINS: Short
DOCUMENT_POSITION_CONTAINED_BY: Short
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short

SVGUseElementShadowRoot : ShadowRoot {
    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 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
    }
}

public external open class SVGUseElementShadowRoot : ShadowRoot {
    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 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
    }
}

public external interface SVGElementInstance {
    val correspondingElement: SVGElement?
        get() = definedExternally
    val correspondingUseElement: SVGUseElement?
        get() = definedExternally
}

public external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {
    open val sourceAnimation: dynamic
}

/**
 * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin
 */
public external abstract class SVGSwitchElement : SVGGraphicsElement {
    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
    }
}

public external interface GetSVGDocument {
    fun getSVGDocument(): Document
}

/**
 * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin
 */
public external abstract class SVGStyleElement : SVGElement, LinkStyle {
    open var type: String
    open var media: String
    open var title: 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 [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin
 */
public external abstract class SVGTransform {
    open val type: Short
    open val matrix: DOMMatrix
    open val angle: Float
    fun setMatrix(matrix: DOMMatrixReadOnly)
    fun setTranslate(tx: Float, ty: Float)
    fun setScale(sx: Float, sy: Float)
    fun setRotate(angle: Float, cx: Float, cy: Float)
    fun setSkewX(angle: Float)
    fun setSkewY(angle: Float)
}

    companion object {
        val SVG_TRANSFORM_UNKNOWN: Short
        val SVG_TRANSFORM_MATRIX: Short
        val SVG_TRANSFORM_TRANSLATE: Short
        val SVG_TRANSFORM_SCALE: Short
        val SVG_TRANSFORM_ROTATE: Short
    }
}
**Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin**

```kotlin
public external abstract class SVGTransformList {
    open val length: Int
    open val numberOfItems: Int

    fun clear()
    fun initialize(newItem: SVGTransform): SVGTransform
    fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform
    fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform
    fun removeItem(index: Int): SVGTransform
    fun appendItem(newItem: SVGTransform): SVGTransform
    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform
    fun consolidate(): SVGTransform?
    fun getItem(index: Int): SVGTransform
}

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }
```

**Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin**

```kotlin
public external abstract class SVGAnimatedTransformList {
    open val baseVal: SVGTransformList
    open val animVal: SVGTransformList
}
```

**Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin**

```kotlin
public external abstract class SVGPreserveAspectRatio {
    open var align: Short
    open var meetOrSlice: Short

    companion object {
        val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short
        val SVG_PRESERVEASPECTRATIO_NONE: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short
        val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short
        val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short
        val SVG_MEETORSLICE_UNKNOWN: Short
        val SVG_MEETORSLICE_MEET: Short
        val SVG_MEETORSLICE_SLICE: Short
    }
}
```

**Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin**

```kotlin
public external abstract class SVGAnimatedPreserveAspectRatio {
    open val baseVal: SVGPreserveAspectRatio
    open val animVal: SVGPreserveAspectRatio
}
```

**Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin**

```kotlin
public external abstract class SVGPathElement : SVGGeometryElement {
    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 [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin**

```kotlin
public 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
}
```
```kotlin
/**
 * 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
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin
 */
public external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {
    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
    }
```
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 [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin */
public external interface SVGAnimatedPoints {
    val points: SVGPointList
    val animatedPoints: SVGPointList
}

public external abstract class SVGPointList {
    open val length: Int
    open val numberOfItems: Int
    fun clear()
    fun initialize(newItem: DOMPoint): DOMPoint
    fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint
    fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint
    fun removeItem(index: Int): DOMPoint
    fun appendItem(newItem: DOMPoint): DOMPoint
    fun get(index: Int): DOMPoint
    fun set(index: Int, newItem: DOMPoint)
}

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]

@kotlin.internal.InlineOnly
public inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }

/**
 * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin */
public external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {
    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 [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin */
public external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {
    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 [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin */
public external abstract class SVGTextContentElement : SVGGraphicsElement {
    open val textLength: SVGAnimatedLength
    open val lengthAdjust: SVGAnimatedEnumeration
    fun getNumberOfChars(): Int
    fun getComputedTextLength(): Float
    fun getSubStringLength(charnum: Int, nchars: Int): Float
    fun getStartPositionOfChar(charnum: Int): DOMPoint
    fun getEndPositionOfChar(charnum: Int): DOMPoint
    fun getExtentOfChar(charnum: Int): DOMRect
    fun getRotationOfChar(charnum: Int): Float
    fun getCharNumAtPosition(point: DOMPoint)

    companion object {
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
    }
}
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 [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin
 */
public external abstract class SVGTextPositioningElement : SVGTextContentElement {
    open val x: SVGAnimatedLengthList
    open val y: SVGAnimatedLengthList
    open val dx: SVGAnimatedLengthList
    open val dy: SVGAnimatedLengthList
    open val rotate: SVGAnimatedNumberList

    companion object {

        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: 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
    }
}

/**
 * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin
 */
public external abstract class SVGSVGElement {
    companion object {

        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: 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
    }
}

/**
 * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGSpanElement) to Kotlin
 */
public external abstract class SVGTSpanElement : SVGTextPositioningElement {
    companion object {

        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: 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
    }
}
**Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin**

```java
public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {
    open val startOffset: SVGAnimatedLength
    open val method: SVGAnimatedEnumeration
    open val spacing: SVGAnimatedEnumeration

    companion object {
        val TEXTPATH_METHODTYPE_UNKNOWN: Short
        val TEXTPATH_METHODTYPE_ALIGN: Short
        val TEXTPATH_METHODTYPE_STRETCH: Short
        val TEXTPATH_SPACINGTYPE_UNKNOWN: Short
        val TEXTPATH_SPACINGTYPE_AUTO: Short
        val TEXTPATH_SPACINGTYPE_EXACT: Short
        val LENGTHADJUST_UNKNOWN: Short
        val LENGTHADJUST_SPACING: Short
        val LENGTHADJUST_SPACINGANDGLYPHS: Short
        val TEXT_NODE: Short
    }
}
```

**Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin**

```java
public external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {
    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
    }
}
```

**Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin**

```java
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
    }
}
```
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 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

/**
 * 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
valSVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: 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

DOCUMENTPOSITIONIMPLEMENTATIONSPECIFIC: Short
"Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin

/**
 * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin
 */
public external abstract class SVGLinearGradientElement : SVGGradientElement {
open val x1: SVGAnimatedLength
open val y1: SVGAnimatedLength
open val x2: SVGAnimatedLength
open val y2: SVGAnimatedLength

companion object {
val SVG_SPREADMETHODUNKNOWN: Short
val SVG_SPREADMETHODPAD: Short
val SVG_SPREADMETHODREFLECT: Short
val SVG_SPREADMETHODREPEAT: Short
valSVG_UNITTYPEUNKNOWN: Short
val SVG_UNITTYPE_USERSPACEONUSE: Short
valSVG_UNITTYPE_OBJECTBOUNDINGBOX: Short
val ENTITYREFERENCE_NODE: Short
val ENTITY_NODE: Short
val PROCESSINGINSTRUCTION_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 DOCUMENTPOSITION_DISCONNECTED: Short
val DOCUMENTPOSITION_PRECEDING: Short
val DOCUMENTPOSITION_FOLLOWING: Short
val DOCUMENTPOSITION_CONTAINS: Short
val DOCUMENTPOSITION_CONTAINED_BY: Short

DOCUMENTPOSITIONIMPLEMENTATIONSPECIFIC: Short
"}
val SVG_SPREADMETHOD_PAD: Short
val SVG_SPREADMETHOD_REPEAT: Short
val SVG_UNIT_TYPE_UNKNOWN: Short
val SVG_UNIT_TYPE_USERSPACEONUSE: Short
val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: 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

/**
 * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin
 *
 * @public external abstract class SVGRadialGradientElement : SVGGradientElement {
 *   open val cx: SVGAnimatedLength
 *   open val cy: SVGAnimatedLength
 *   open val r: SVGAnimatedLength
 *   open val fx: SVGAnimatedLength
 *   open val fy: SVGAnimatedLength
 *   open val fr: SVGAnimatedLength
 *   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
 *     val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
 *   }
 * }
 *
 * public external abstract class SVGMeshGradientElement : SVGGradientElement {
 *   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
 *     val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
 *   }
 * }
 *
 * public external abstract class SVGMeshrowElement : SVGElement {
 *   companion object {
 *     val ELEMENT_NODE: Short
 *     val ATTRIBUTE_NODE: Short
 *     val TEXT_NODE: Short
 *     val CDATA_SECTION_NODE: Short
 *   }
 * }
 */
open external abstract class SVGMeshpatchElement : SVGEelement {
    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\[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin */
open external abstract class SVGStopElement : SVGEelement {
    open val offset: SVGAnimatedNumber
}

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\[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin */
open external abstract class SVGPatternElement : SVGEelement, SVGFitToViewBox, SVGURIReference, SVGUititpes {
    open val patternUnits: SVGAnimatedEnumeration
    open val patternContentUnits: SVGAnimatedEnumeration
    open val patternTransform: SVGAnimatedTransformList
    open val x: SVGAnimatedLength
    open val y: SVGAnimatedLength
    open val width: SVGAnimatedLength
    open val height: SVGAnimatedLength
}

companion object {
    val SVG_UNIT_TYPE_UNKNOWN: Short
    val SVG_UNIT_TYPE_USERSPACEONUSE: Short
    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: 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
}

open external abstract class SVGHatchElement : SVGEelement {
    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
    }
}

open external abstract class XMLStash {
    companion object {
        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
    }
}

open external abstract class Element {
    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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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

unpublic external abstract class SVGHatchpathElement : 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
        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
    }
}

/**
 * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin
 */
public external abstract class SVGCursorElement : SVGElement, SVGURIReference {
    open val x: SVGAnimatedLength
    open val y: 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 [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin
 */
public 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
    }
}
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
val DOCUMENT_POSITION_PRECEDING: Short
val DOCUMENT_POSITION_FOLLOWING: Short
val DOCUMENT_POSITION_CONTAINS: Short
val DOCUMENT_POSITION_CONTAINED_BY: 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
    }
}

/**
 * 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) : 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? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun BlobPropertyBag(type: String? = ""): BlobPropertyBag {
    val o = js("({})")
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin
 */
public external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {
    open val name: String
    open val lastModified: Int
}

public external interface FilePropertyBag : BlobPropertyBag {
    var lastModified: Int?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = ""): FilePropertyBag {
    val o = js("({})")
    o["lastModified"] = lastModified
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin
 */
public external open class FileReader : EventTarget {
    open val readyState: Short
    open val result: dynamic
    open val error: dynamic
    var onloadstart: ((ProgressEvent) -> dynamic)?
    var onprogress: ((ProgressEvent) -> dynamic)?
    var onabort: ((Event) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    var onloadend: ((Event) -> dynamic)?
    fun readAsArrayBuffer(blob: Blob)
    fun readAsBinaryString(blob: Blob)
    fun readAsText(blob: Blob, label: String = definedExternally)
    fun readAsDataURL(blob: Blob)
}
fun abort()

    companion object {
        val EMPTY: Short
        val LOADING: Short
        val DONE:
    }
}

/**
 * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin */
public external open class FileReaderSync {
    fun readAsArrayBuffer(blob: Blob): ArrayBuffer
    fun readAsBinaryString(blob: Blob): String
    fun readAsDataURL(blob: Blob): String
}

/**
 * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin */
public external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {
    var onclick: ((MouseEvent) -> dynamic)?
    var onerror: ((Event) -> dynamic)?
    open val title: String
    open val dir: NotificationDirection
    open val lang: String
    open val body: String
    open val tag: String
    open val image: String
    open val icon: String
    open val badge: String
    open val sound: String
    open val vibrate: Array<out Int>
    open val timestamp: Number
    open val renotify: Boolean
    open val silent: Boolean
    open val noscreen: Boolean
    open val requireInteraction: Boolean
    open val data: Any?
    open val actions: Array<out NotificationAction>
    fun close()

    companion object {
        val permission: NotificationPermission
        val maxActions: Int
        fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>
    }
}

public external interface NotificationOptions {
    var dir: NotificationDirection? /* = NotificationDirection.AUTO */
    var lang: String? /* = "" */
    var body: String? /* = "" */
    var tag: String? /* = "" */
    var image: String?
    var icon: String?
    var badge: String?
    var sound: String?
    var vibrate: dynamic
    var timestamp: Number?
    var renotify: Boolean? /* = false */
    var silent: Boolean? /* = false */
    var noscreen: Boolean? /* = false */
    var requireInteraction: Boolean? /* = false */
    var sticky: Boolean? /* = false */
    var data: Any? /* = null */
    var actions: Array<NotificationAction>? /* = arrayOf() */
}

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o["timestamp"] = timestamp
o["renotify"] = renotify
o["silent"] = silent
o["noscreen"] = noscreen
o["requireInteraction"] = requireInteraction
o["sticky"] = sticky
o["data"] = data
o["actions"] = actions
return o
}

public external interface NotificationAction {
    var action: String?
        get() = definedExternally
        set(value) = definedExternally
    var title: String?
        get() = definedExternally
        set(value) = definedExternally
    var icon: String?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["action"] = action
    o["title"] = title
    o["icon"] = icon
    return o
}

public external interface GetNotificationOptions {
    var tag: String? /* = "" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun GetNotificationOptions(tag: String? = ""): GetNotificationOptions {
    val o = js("({})")
    o["tag"] = tag
    return o
}

/**
 * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin
 */
public external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) : ExtendableEvent {
    open val notification: Notification
    open val action: String

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }

    public external interface NotificationEventInit : ExtendableEventInit {
        var notification: Notification?
            get() = definedExternally
            set(value) = definedExternally
        var action: String? /* = "" */
            get() = definedExternally
            set(value) = definedExternally
    }

    @kotlin.internal.InlineOnly
        val o = js("({})")
        o["notification"] = notification
        o["action"] = action
        o["bubbles"] = bubbles
        o["cancelable"] = cancelable
        o["composed"] = composed
        return o
    }

    /* please, don't implement this interface!
    */
    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
    public external interface NotificationPermission {
    }

    public inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = "default".asDynamic().unsafeCast<NotificationPermission>()

    public inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = "denied".asDynamic().unsafeCast<NotificationPermission>()

    public inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = "granted".asDynamic().unsafeCast<NotificationPermission>()

    /* please, don't implement this interface!
    */
    @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
    public external interface NotificationDirection {
    }

    public inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = "auto".asDynamic().unsafeCast<NotificationDirection>()

    public inline val NotificationDirection.Companion.LTR: NotificationDirection get() = "ltr".asDynamic().unsafeCast<NotificationDirection>()

    public inline val NotificationDirection.Companion.RTL: NotificationDirection get() = "rtl".asDynamic().unsafeCast<NotificationDirection>()
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```
UnionClientOrMessagePortOrServiceWorker {
  open val scriptURL: String
  open val val state:
  ServiceWorkerState
  open var on statechange: ((Event) -> dynamic)?
  transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript
 */
public external abstract class ServiceWorkerRegistration : EventTarget {
  open val installing: ServiceWorker?
  open val waiting: ServiceWorker?
  open val active: ServiceWorker?
  open val scope:
  String
  open var on updatefound: ((Event) -> dynamic)?
  fun register(scriptURL: String)
}

/**
 * Exposes the JavaScript
 */
public external abstract class ServiceWorkerContainer : EventTarget {
  open val controller: ServiceWorker?
  open var on controllerchange:
    ((Event) -> dynamic)?
  fun register(scriptURL: String, options: RegistrationOptions = definedExternally)
}

public external interface RegistrationOptions {
  var scope: String?
  var type: WorkerType? /* = WorkerType.CLASSIC */
}

@kotlin.internal.InlineOnly
public inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {
    val o = js("({})")
    o["scope"] = scope
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript
 */
public external open class ServiceWorkerMessageEvent(type: String, eventInitDict: ServiceWorkerMessageEventInit = definedExternally) : Event {
  open val data: Any?
  open val origin:
  String
  open var on controllerchange: ((Event) -> dynamic)?
  fun register(scriptURL: String, options: RegistrationOptions = definedExternally)
}

public external interface ServiceWorkerMessageEventInit : EventInit {
  var data: Any?
  var origin: String?
  var lastEventId: String?
  var source: UnionMessagePortOrServiceWorker?
  var ports: Array<MessagePort>?
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript
 */
public external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {
  open var on install: ((Event) -> dynamic)?
  open var on activate: ((Event) -> dynamic)?
  open var on fetch: ((FetchEvent) -> dynamic)?
  open var on foreign fetch: ((Event) -> dynamic)?
  open var on message: ((MessageEvent) -> dynamic)?
  open var on notification click: ((NotificationEvent) -> dynamic)?
  open var on notification close: ((NotificationEvent) -> dynamic)?
  fun skip Waiting():
```

Promise<Unit> \n
Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin

```kotlin
Promise<Unit>
}

/**
 * Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin
 */
public external abstract class Client :
    UnionClientOrMessagePortOrServiceWorker {
    open val url: String
    open val frameType: FrameType
    open val id: String
    fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)
}

/**
 * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin
 */
public external abstract class WindowClient : Client {
    open val visibilityState: dynamic
    open val focused: Boolean
    fun focus(): Promise<WindowClient>
    fun navigate(url: String):
}

/**
 * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin
 */
public external abstract class Clients {
    fun get(id: String): Promise<Any?>
    fun matchAll(options: ClientQueryOptions = definedExternally): Promise<Array<Client>>
    fun openWindow(url: String): Promise<WindowClient>
    fun claim(): Promise<Unit>
}

public external interface ClientQueryOptions {
    var includeUncontrolled: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var type: ClientType? /* = ClientType.WINDOW */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {
    val o = js("({})")
    o["includeUncontrolled"] = includeUncontrolled
    o["type"] = type
    return o
}

/**
 * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin
 */
public external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {
    fun waitUntil(f: Promise<Any?>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableEventInit : EventInit

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin
 */
public external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {
    fun registerForeignFetch(options: ForeignFetchOptions)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ForeignFetchOptions {
    var scopes: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
    var origins: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {
    val o = js("({})")
    o["scopes"] = scopes
    o["origins"] = origins
    return o
}

/**
 * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin
 */
public external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {
    open val request: Request
    open val clientId: String?
    open val isReload: Boolean
    fun respondWith(r: Promise<Response>)

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface FetchEventInit : ExtendableEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var clientId: String? /* = null */
        get() = definedExternally
        set(value) = definedExternally
    var isReload: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var bubbles: Boolean?
        get() = definedExternally
        set(value) = definedExternally
    var cancelable: Boolean?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["request"] = request
    o["clientId"] = clientId
    o["isReload"] = isReload
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}
```

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object {
    val NONE: Short
    val CAPTURING_PHASE: Short
}

public external interface ForeignFetchEventInit : ExtendableEventInit {
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String? /* = "null" */
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["request"] = request
    o["origin"] = origin
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

public external interface ForeignFetchResponse {
    var response: Response?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var headers: Array<String>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["response"] = response
    o["origin"] = origin
    o["headers"] = headers
    return o
}

/**
 * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin
 */
public external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {
    open val data: Any?
    open val origin: String
    open val lastEventId: String
    open val source: UnionClientOrMessagePortOrServiceWorker?
    open val ports: Array<out MessagePort>?

    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface ExtendableMessageEventInit : ExtendableEventInit {
    var data: Any?
        get() = definedExternally
        set(value) = definedExternally
    var origin: String?
        get() = definedExternally
        set(value) = definedExternally
    var lastEventId: String?
        get() = definedExternally
        set(value) = definedExternally
    var source: UnionClientOrMessagePortOrServiceWorker?
        get() = definedExternally
        set(value) = definedExternally
    var ports: Array<MessagePort>?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["data"] = data
    o["origin"] = origin
    o["lastEventId"] = lastEventId
    o["source"] = source
    o["ports"] = ports
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/**
 * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin
 */
public external abstract class Cache {
    fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
    fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>
    fun add(request: dynamic): Promise<Unit>
    fun addAll(requests: Array<dynamic>): Promise<Unit>
    fun put(request: dynamic, response: Response): Promise<Unit>
    fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>
    fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>
}

public external interface CacheQueryOptions {
    var ignoreSearch: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreMethod: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var ignoreVary: Boolean? /* = false */
        get() = definedExternally
        set(value) = definedExternally
    var cacheName: String? get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["ignoreSearch"] = ignoreSearch
    o["ignoreMethod"] = ignoreMethod
    o["ignoreVary"] = ignoreVary
    o["cacheName"] = cacheName
}
cacheName
    return o
}

public external interface CacheBatchOperation {
    var type: String?
        get() = definedExternally
        set(value) = definedExternally
    var request: Request?
        get() = definedExternally
        set(value) = definedExternally
    var response: Response?
        get() = definedExternally
        set(value) = definedExternally
    var options: CacheQueryOptions?
        get() = definedExternally
        set(value) = definedExternally
}

@kotlin.internal.InlineOnly
    val o = js("({})")
    o["type"] = type
    o["request"] = request
    o["response"] = response
    o["options"] = options
    return o
}

/**
 * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin
 > *@public external abstract class CacheStorage {
>     fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>
>     fun has(cacheName: String): Promise<Boolean>
>     fun open(cacheName: String): Promise<Cache>
>     fun delete(cacheName: String): Promise<Boolean>
>     fun keys(): Array<String>"

public external open class FunctionalEvent : ExtendableEvent {
    companion object {
        val NONE: Short
        val CAPTURING_PHASE: Short
        val AT_TARGET: Short
        val BUBBLING_PHASE: Short
    }
}

public external interface UnionMessagePortOrServiceWorker

public external interface UnionClientOrMessagePortOrServiceWorker

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ServiceWorkerState {
    companion object
}

public inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = "installed".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = "activating".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = "activated".asDynamic().unsafeCast<ServiceWorkerState>()

public inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = "redundant".asDynamic().unsafeCast<ServiceWorkerState>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface FrameType {
    companion object
}

public inline val FrameType.Companion.AUXILIARY: FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.TOP_LEVEL: FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()

public inline val FrameType.Companion.NONE: FrameType get() = "none".asDynamic().unsafeCast<FrameType>()

/* please, don't implement this interface! */
@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")
public external interface ClientType {
    companion object
}

public inline val ClientType.Companion.WINDOW: ClientType get() = "window".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.WORKER: ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.SHAREDWORKER: ClientType get() = "sharedworker".asDynamic().unsafeCast<ClientType>()

public inline val ClientType.Companion.ALL: ClientType get() = "all".asDynamic().unsafeCast<ClientType>()

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 */

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org.w3c.notifications.

import org.w3c.performance.

import org.w3c.workers.

/**
 * Exposes the
 * JavaScript

 * @see [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget)

 * to Kotlin

 * @public external abstract class XMLHttpRequestEventTarget : EventTarget {

 * open var onloadstart:
 * ((ProgressEvent) -> dynamic)?

 * open var onprogress: ((ProgressEvent) -> dynamic)?

 * open var onabort:
 * ((Event) -> dynamic)?

 * open var onerror: ((Event) -> dynamic)?

 * open var ontimeout: ((Event) -> dynamic)?

 * open var onloadend: ((Event) -> dynamic)?

 * }

 * @public external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget

 * @public external open class XMLHttpRequest : XMLHttpRequestEventTarget {

 * var onreadystatechange: ((Event) -> dynamic)?

 * open val readyState: Short

 * val responseURL: String

 * val status: Short

 * val statusText: String

 * var responseType: XMLHttpRequestResponseType

 * fun open(method: String, url: String)


 * fun setRequestHeader(name: String, value: String)

 * fun send(body: dynamic = definedExternally)

 * fun abort()

 * fun getResponseHeader(name: String): String?

 * fun getAllResponseHeaders(): String

 * fun overrideMimeType(mime: String)

 * }

 * @kotlin.internal.InlineOnly


 * return js("({})")

 * "lengthComputable" = lengthComputable

 * "loaded" = loaded

 * "total" = total

 * "bubbles" = bubbles

 * "cancelable" = cancelable

 * "composed" = composed

 * return this

 * }

 */

@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")

public external interface XMLHttpRequestResponseType {

}

public inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = "".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = "arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = "blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = "document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.NONESSENTIAL: XMLHttpRequestResponseType get() = "nonessential".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.NONESTRICT: XMLHttpRequestResponseType get() = "nonstrict".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.OPTIONS: XMLHttpRequestResponseType get() = "options".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.PRELOAD: XMLHttpRequestResponseType get() = "preload".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.PRIORITY: XMLHttpRequestResponseType get() = "priority".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = "text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.URL: XMLHttpRequestResponseType get() = "url".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.URLS: XMLHttpRequestResponseType get() = "urls".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.UNSAFE: XMLHttpRequestResponseType get() = "unsafe".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB: XMLHttpRequestResponseType get() = "web".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB_RELAXED: XMLHttpRequestResponseType get() = "web-relaxed".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB_STRICT: XMLHttpRequestResponseType get() = "web-strict".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB_URLS: XMLHttpRequestResponseType get() = "web-urls".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB_URLS_RELAXED: XMLHttpRequestResponseType get() = "web-urls-relaxed".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WEB_URLS_STRICT: XMLHttpRequestResponseType get() = "web-urls-strict".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS: XMLHttpRequestResponseType get() = "ws".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_Relax: XMLHttpRequestResponseType get() = "ws-relaxed".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_Secs: XMLHttpRequestResponseType get() = "ws-secs".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_Usec: XMLHttpRequestResponseType get() = "ws-usec".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS: XMLHttpRequestResponseType get() = "ws-urls".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS_Relax: XMLHttpRequestResponseType get() = "ws-urls-relaxed".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS_Secs: XMLHttpRequestResponseType get() = "ws-urls-secs".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS_Usecs: XMLHttpRequestResponseType get() = "ws-urls-usecs".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_Usec: XMLHttpRequestResponseType get() = "ws-usec".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_Usec: XMLHttpRequestResponseType get() = "ws-usec".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS_Secs: XMLHttpRequestResponseType get() = "ws-urls-secs".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

public inline val XMLHttpRequestResponseType.Companion.WS_URLS_Usecs: XMLHttpRequestResponseType get() = "ws-urls-usecs".asDynamic().unsafeCast<XMLHttpRequestResponse i

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"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()
n/public inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = "json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()
n/public inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = "text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()

/*
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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

import kotlin.annotation.AnnotationRetention.BINARY
import kotlin.annotation.AnnotationRetention.SOURCE
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind
import kotlin.reflect.KClass

/**
 * Signals that the annotated
 * annotation class is a marker of an experimental API.
 * Any declaration annotated with that marker is
 * considered an experimental declaration
 * and its call sites should accept the experimental aspect of it either by
 * using [UseExperimental], or by being annotated with that marker themselves, effectively causing further
 * propagation of that experimental aspect.
 * This class is experimental itself and can only be used with the
 * compiler argument `-Xuse-experimental=kotlin.Experimental`
 */
@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@Suppress("ANNOTATION_CLASS_MEMBER")
public annotation class Experimental(val level: Level = Level.ERROR) {
    /**
     * Severity of the diagnostic that
     * should be reported on usages of experimental API which did not explicitly accept the experimental aspect
     * of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.
     */
    public enum class Level {
        /** Specifies that a warning should be reported on incorrect usages of this
         * experimental API. */
        WARNING,
        /** Specifies that an error should be reported on incorrect usages of
         * this experimental API. */
        ERROR,
    }
}

/**
 * Allows to use experimental API denoted by the given
 * markers in the annotated file, declaration, or expression.
 * If a declaration is annotated with [UseExperimental], its
 * usages are **not** required to opt-in to that experimental API.
 * This class is experimental itself and can only be used with the
 * compiler argument `-Xuse-experimental=kotlin.Experimental`
 */
@Target(
    CLASS,
    PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
    PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
    TYPEALIAS
)
@Retention(SOURCE)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50", versionKind =
    RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class UseExperimental(
    vararg val markerClass: KClass<out Annotation>
)

@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION,
    TYPEALIAS)
@Retention(BINARY)
@Experimental(level =
    Experimental.Level.ERROR)
@Retention(AnnotationRetention.BINARY)
@Target(ANNOTATION_CLASS)
@Suppress("ANNOTATION_CLASS", "FIELD", "LOCAL_VARIABLE", "PROPERTY",
    "PROPERTY_SETTER", "CONSTRUCTOR", "FUNCTION", "PROPERTY_GETTER",
    "TYPEALIAS")
@MustBeDocumented
@ExperimentalStdlibApi
@SinceKotlin("1.3")  // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4
public annotation class ExperimentalStdlibApi

package kotlin

import kotlin.annotation.AnnotationTarget.*

/**
 * This
 * annotation marks the standard library API that is considered experimental and is not subject to the
 * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the
 * standard library.
 * The behavior of such API may be changed or the API may be removed completely in any
 * further release.
 * Beware using the annotated API especially if you're developing a library, since your library
 * might become binary incompatible 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
 * [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalStdlibApi::class)`.
 * or by using the
 * compiler argument `-Xuse-experimental=kotlin.ExperimentalStdlibApi`
 */
@ExperimentalStdlibApi
@Retention(AnnotationRetention.BINARY)
@Target(ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@MustBeDocumented
@ExperimentalStdlibApi
@SinceKotlin("1.13")  // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4
public annotation class ExperimentalStdlibApi

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*/

package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.
 * When this annotation is placed on a generic function parameter of a function, it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.
 * The calls that affect inference are either members of the receiver type of an annotated function parameter or extensions for that type. The extensions must be themselves annotated with `@BuilderInference`. Example: we declare an `@`fun `sequence(@BuilderInference block: suspend SequenceScope<T>.(Unit) -> Unit): Sequence<T>` and use it like
 * `val result = sequence { yield("result") }` Here the type argument of the resulting sequence is inferred to `String` from the argument of the `SequenceScope.yield` function, that is called inside the lambda passed to `sequence`.

* Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.

*/
@Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.1")
@ExperimentalTypeInference
public annotation class BuilderInference

package kotlin

import kotlin.annotation.AnnotationTarget.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * The experimental multiplatform support API marker.
 *
 * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by
 * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalMultiplatform::class)`,
 * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalMultiplatform`.

*/
@Experimental
@MustBeDocumented
@Target(
    CLASS,
    ANNOTATION_CLASS,
    PROPERTY,
    FIELD,
    LOCAL_VARIABLE,
    VALUE_PARAMETER,
    CONSTRUCTOR,
    FUNCTION,
    PROPERTY_GETTER,
    PROPERTY_SETTER,
    TYPEALIAS
)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class ExperimentalMultiplatform

/**
 * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.
 * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
 * annotations can only be used to annotate something, not as types in signatures. If an optional annotation has no
 * corresponding actual class on a platform, the annotation entries where it's used are simply erased when
 * compiling code on that platform.

* Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.

*/
@Target(ANNOTATION_CLASS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class OptionalExpectation

package kotlin.collections

import kotlin.js.JsName

/**
 * Provides a skeletal implementation of the read-only [Collection] interface.
 *
 * @param E the type of elements contained in the collection. The collection is covariant on its element type.
 */
@SinceKotlin("1.1")
public abstract class AbstractCollection<out E> protected constructor() : Collection<E> {
    abstract override val size: Int
    abstract override fun iterator(): Iterator<E>

    override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }

    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean = elements.all { contains(it) }

    override fun isEmpty(): Boolean = size == 0

    override fun toString(): String = joinToString(", ", "[", "]") { element.toString() }

    /**
     * Returns new array of type `Array<Any?>` with the elements of this collection.
     */
    @JsName("toArray")
    protected open fun toArray(): Array<Any?> =

toString(entry.value) in
    private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()

/**
 * Returns a read-only [Collection] of all values in this map.
 * * Accessing this property first time creates a values view from [entries].
 * * All subsequent accesses just return the created instance.
 * * An override val values: Collection<V>?
 *  get() {} if (_values == null) {} _values = object :
 *  AbstractCollection<V>() { override operator fun contains(element: @UnsafeVariance V): Boolean =
 *  containsValue(element)}
 *  override operator fun iterator(): Iterator<V> { val entryIterator = entries.iterator()
 *  return object : Iterator<V> {
 *    override fun hasNext(): Boolean = entryIterator.hasNext()
 *    override fun next(): V = entryIterator.next().value
 *  }
 *  }
 * override val override size: Int get() = this@AbstractMap.size
 * }
 */

private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }

internal companion object {
    internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }
    internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { "$key=$value" }
    internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {
        if (other !is Map.Entry<*, *>) return false
        return e.key == other.key && e.value == other.value
    }
}

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 */
package kotlin.collections

/**
 * Provides a skeletal implementation of the read-only [Set] interface.
 * * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.
 * * @param E the type of elements contained in the set. The set is covariant on its element type.
 * * @since Kotlin(1.1)\
 * opposes abstract class AbstractSet<out E> protected constructor():
 * AbstractCollection<E>(), Set<E> {
 * override fun equals(other: Any?): Boolean {
 * if (other === this) return true
 * if (other is Set<*>) return false
 * return setEquals(this, other)
 * }
 * override fun hashCode(): Int = unorderedHashCode(this)
 * internal companion object {
 * internal fun unorderedHashCode(c: Collection<*>): Int {
 * var hashCode = 0
 * for (element in c) {
 * hashCode += (element?.hashCode() ?: 0)
 * }
 * return hashCode
 * }
 * internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {
 * if (c.size != other.size) return false
 * return c.containsAll(other)
 * }
 * }
 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("ArraysKt")

package kotlin.collections

import kotlin.contracts.*

/**
 * Returns a single list of all elements from all arrays in the
given array.
 */
public fun <T> Array<out Array<out T>>.flatten(): List<T> {
    val result = ArrayList<T>(sumBy { it.size })
    for (element in this) {
        result.addAll(element)
    }
    return result
}

/**
 * Returns a pair of lists, where
 * *first* list is built from
 * the first values of each pair from this array,
 * *second* list is built from the second values of each pair from this
 * array.
 */
public fun <T, R> Array<out Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {
    val listT = ArrayList<T>(size)
    val listR = ArrayList<R>(size)
    for (pair in this) {
        listT.add(pair.first)
        listR.add(pair.second)
    }
    return listT to listR
}

/**
 * Returns `true` if this nullable array is either null or empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")
public inline fun Array<*>?.isNullOrEmpty(): Boolean
    contract {
        returns(false) implies (this@isNullOrEmpty != null)
    }

/**
 * Returns this array if it's not empty
 * or the result of calling `defaultValue` function if
 * the array is empty.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")
public inline fun Array<*>?.arrayIfEmpty(): Array<*>?
    contract {
        returns(null) implies (this@arrayIfEmpty != null)
    }

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 */

package kotlin.jvm

annotation class InlineOnly

public inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R == null if (isNullOrEmpty()) defaultValue() else

when (v1 is Array<*>) & v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false
v1 is ShortArray & v2 is IntArray -> if (!v1.contentEquals(v2)) return false
v1 is BooleanArray & v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false

v1 is UByteArray & v2 is UByteArray -> if (!v1.contentEquals(v2)) return false
v1 is UShortArray & v2 is UShortArray -> if (!v1.contentEquals(v2)) return false
v1 is UIntArray & v2 is UIntArray -> if (!v1.contentEquals(v2)) return false
v1 is ULongArray & v2 is UByteArray -> if (!v1.contentEquals(v2)) return false
v1 is UByteArray & v2 is UByteArray -> if (!v1.contentEquals(v2)) return false
v1 is CharArray & v2 is CharArray -> if (!v1.contentEquals(v2)) return false
v1 is charcoal & v2 is CharArray -> if (!v1.contentEquals(v2)) return false

when (v1 is CharArray) return false

else return if (v1 != v2) return false

result.append("[...]")
return processed.add(this.result.append("")+" when (element) {"null" -> result.append("null")v1 is Array<*> ->
result.append(element.contentToString())v1 is ShortArray -> result.append(element.contentToString())v1 is FloatArray -> result.append(element.contentToString())v1 is CharArray ->
result.append(element.contentToString())v1 is BooleanArray -> result.append(element.contentToString())v1 is UByteArray -> result.append(element.contentToString())v1 is UShortArray ->
result.append(element.contentToString())v1 is UIntArray -> result.append(element.contentToString())v1 is ULongArray -> result.append(element.contentToString())v1 else ->
result.append(element.contentToString())v1 } return processed.removeAt(processed.lastIndex)
requested (not used).

* @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.

* @return the property value.

* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).

* @param thisRef the object for which the value is requested (not used).

* @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.

* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).

* @return the property value.

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* @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.

* @param thisRef the object for which the value is requested (not used).

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* @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.

* @param thisRef the object for which the value is requested (not used).

* @return the property value.
public fun getOrImplicitDefault(key: K): V

private interface MutableMapWithDefault<K, V> {
    public override val map: MuttableMap<K, V>
}

private interface MutableMapWithDefaultImpl<K, V> (public override val map: MuttableMap<K, V>, private val default: (key: K) -> V): 
    public override fun getOrImplicitDefault(key: K): V = map.get(key)

private class MapWithDefaultImpl<K, V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
    MapWithDefault<K, V> {
        override fun equals(other: Any?): Boolean = map.equals(other)
        override fun hashCode(): Int = map.hashCode()
        override fun toString(): String = map.toString()
        override val size: Int get() = map.size
        override fun isEmpty(): Boolean = map.isEmpty()
        override fun containsKey(key: K): Boolean = map.containsKey(key)
        override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
        override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
        override fun put(key: K, value: V): V? = map.put(key, value)
        override fun remove(key: K): V? = map.remove(key)
        override fun putAll(from: Map<out K, V>): Boolean = map.putAll(from)
        override fun clear() = map.clear()
        override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
    }

private class MutableMapWithDefaultImpl<K, V>(public override val map: MuttableMap<K, V>, private val default: (key: K) -> V): 
    MutableMapWithDefault<K, V> {
        override fun equals(other: Any?): Boolean = map.equals(other)
        override fun hashCode(): Int = map.hashCode()
        override fun toString(): String = map.toString()
        override val size: Int get() = map.size
        override fun isEmpty(): Boolean = map.isEmpty()
        override fun containsKey(key: K): Boolean = map.containsKey(key)
        override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)
        override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
        override fun put(key: K, value: V): V? = map.put(key, value)
        override fun remove(key: K): V? = map.remove(key)
        override fun putAll(from: Map<out K, V>): Boolean = map.putAll(from)
        override fun clear() = map.clear()
        override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
    }

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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CollectionsKt")

package kotlin.collections

import kotlin.random.Random

/**
 * Removes a single instance of the specified element from this collection, if it is present.
 * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`:
 * `return true` if the element has been successfully removed; `false` if it was not present in the collection.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableList<T>).remove(element)

/**
 * Removes all of this collection's elements that are also contained in the specified collection.
 * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`:
 * `return true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.
 * Retains only the elements in this collection that are contained in the specified collection.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.retainAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableList<T>).retainAll(elements)

/**
 * Removes the element at the specified index from this collection, if it is present.
 * In Kotlin one should use the [MutableList.removeAt] function instead.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.removeAt(index: Int): T = removeAt(index)

/**
 * Adds the specified element to this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.plusAssign(element: T)
    { this.add(element) }

/**
 * Removes the element at the specified index from this collection.
 */
@kotlin.internal.InlineOnly
public inline fun <T> MutableList<T>.removeAt(index: Int): T = removeAt(index)
T>.plusAssign(elements: Iterable<T>) {
    this.addAll(elements)
}

/**
 * Adds all elements of the given [elements] array to this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {
    this.addAll(elements)
}

/**
 * Adds all elements contained in the given [elements] sequence to this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {
    this.addAll(elements)
}

/**
 * Removes a single instance of the specified [element] from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {
    this.remove(element)
}

/**
 * Removes all elements contained in the given [elements] collection from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] array from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] sequence from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {
    this.removeAll(elements)
}

/**
 * Adds all elements of the given [elements] collection to this mutable collection.
 */
public fun <T> MutableList<in T>.addAll(elements: Iterable<T>): Boolean {
    when (elements) {
        is Collection ->
            return addAll(elements)
        else -> {
            var result: Boolean = false
            for (item in elements)
                if (add(item)) result = true
            return result
        }
    }
}

/**
 * Adds all elements of the given [elements] sequence to this mutable collection.
 */
public fun <T> MutableList<in T>.addAll(elements: Sequence<T>): Boolean {
    for (item in elements) {
        if (add(item)) return true
    }
    return false
}

/**
 * Adds all elements of the given [elements] array to this mutable collection.
 */
public fun <T> MutableList<in T>.addAll(elements: Array<out T>): Boolean {
    return addAll(elements.asList())
}

/**
 * Removes all elements from this [MutableIterable] that match the given [predicate].
 *
 * @return `true` if any element was removed from this collection, or `false` when no
 * elements were removed and collection was not modified.
 */
public fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)

/**
 * Retains only elements of this [MutableIterable] that match the given [predicate].
 *
 * @return `true` if any element was removed from this collection, or `false` when no
 * elements were removed and collection was not modified.
 */
public fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)

private fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {
    var result = false
    with(iterator()) {
        while (hasNext())
            if (predicate(next()) == predicateResultToRemove) {
                remove()
                result = true
            }
    }
    return result
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.
 */
public fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] array from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] sequence from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {
    this.removeAll(elements)
}

/**
 * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {
    this.removeAll(elements)
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    this.removeAll(elements)
}

/**
 * Removes all elements contained in the given [elements] sequence from this mutable collection.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {
    this.removeAll(elements)
}
public fun <T> MutableList<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
    }
}

/**
 * Returns a new list with the elements of this list randomly shuffled using the specified [random]
 * instance as the source of randomness.
 * @sample samples.collections.ReversedViews.asReversed
 */
public fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)

/**
 * Returns a reversed mutable view of the original mutable List.
 * All changes made in this mutable list using the specified [random] instance as the source of randomness.
 * @sample samples.collections.ReversedViews.asReversedMutableList
 */
@kotlin.jvm.JvmName("asReversedMutable")
public fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)
*@file:kotlin.jvm.JvmMultifileClass*@

```kotlin
@file:UseExperimental(
ExperimentalTypeInference::class)

package kotlin.sequences

import kotlin.coroutines.*
import kotlin.coroutines.intrinsics.*
import kotlin.experimental.ExperimentalTypeInference

/**
 * Builds a [Sequence] lazily yielding values one by one.
 *
 * @see kotlin.sequences.generateSequence
 * @sample
 * samples.collections.Sequences.Building.buildFibonacciSequence
 */
@SinceKotlin("1.3")
public fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence {
    iterator(block)
}

@SinceKotlin("1.3")
@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level = DeprecationLevel.ERROR)
@kotlin.internal.InlineOnly
public inline fun <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(builderAction)
}

/**
 * Builds an [Iterator] lazily yielding values one by one.
 *
 * @sample
 * samples.collections.Sequences.Building.buildIterator
 * @sample
 * samples.collections.Iterables.Building.iterable
 */
@SinceKotlin("1.3")
public fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {
    val iterator = SequenceBuilderIterator<T>()
    iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)
    return iterator
}

@SinceKotlin("1.3")
@Deprecated("Use 'iterator { }' function instead.",
ReplaceWith("iterator(builderAction)"), level = DeprecationLevel.ERROR)
@kotlin.internal.InlineOnly
public inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)

/**
 * The scope for yielding values of a [Sequence] or an [Iterator],
 * provides [yield] and [yieldAll] suspension functions.
 *
 * @see sequence
 * @see iterator
 *
 * @sample
 * samples.collections.Sequences.Building.buildSequenceYieldAll
 * @sample
 * samples.collections.Sequences.Building.buildFibonacciSequence
 */
@RestrictsSuspension
public abstract class SequenceScope<in T> internal constructor() {
    /**
     * Yields a value to the [Iterator] being built and suspends
     * until the next value is requested.
     */
    public abstract suspend fun yield(value: T)

    /**
     * Yields all values from the `iterator` to the [Iterator] being built
     * and suspends until all these values are iterated and the next one is requested.
     * The sequence of values returned by the given iterator
     * can be potentially infinite.
     */
    public abstract suspend fun yieldAll(iterator: Iterator<T>)

    /**
     * Yields potentially infinite sequence of values
     * to the [Iterator] being built
     * and suspends until all these values are iterated and the next one is requested.
     */
    public suspend fun yieldAll(elements: Iterable<T>)
}
```
override fun func nextNotReady(): T { when (state) {
    State_NotReady -> return true
    State_ManyNotReady -> return false
}

else { nextIterator = null
    state = State_Done -> return false

State_Failed -> throw exceptionalState();
    nextStep = null
    result.getOrThrow() // just rethrow exception if it is there
    state = State_Done
    override suspend fun func override suspend fun func override suspend fun

fun get(index: Int): E { return checkElementIndex(index, _size)

    return checkRangeIndexes(fromIndex, toIndex, list.size)
    this.fromIndex = fromIndex
    this._size = toIndex - fromIndex
    }
the buffer size: ${buffer.size}

constructor(capacity: Int) : this(arrayOfNulls<Any>(capacity), 0)

private val capacity = buffer.size

private var startIndex: Int = 0

override var size: Int = filledSize

private set

override fun get(index: Int): T {
    checkElementIndex(index, size)
    return buffer[startIndex.forward(index)] as T
}

@Suppress("UNCHECKED_CAST")

fun isFull(): Boolean = size == capacity

fun iterator(): Iterator<T> = object : AbstractIterator<T>() {
    private var count = size
    private var index = startIndex

    override fun computeNext() {
        if (count == 0) {
            done()
        } else {
            @Suppress("UNCHECKED_CAST")
            setNext(buffer[index] as T)
            index = index.forward(1)
            count--
        }
    }

    override fun <T> toArray(array: Array<T>): Array<T> {
        val size = this.size
        var widx = 0
        var idx = startIndex

        while (widx < size && idx < capacity) {
            array[widx] = buffer[idx] as T
            widx++
            idx++
        }

        idx = 0
        while (widx < size) {
            array[widx] = buffer[idx] as T
            widx++
            idx++
        }
        if (array.size > this.size) array[this.size] = null

        return array as Array<T>
    }

    override fun toArray(): Array<Any?> {
        return toArray(arrayOfNulls(size))
    }

    /**
     * Creates a new ring buffer with the capacity equal to
     * the minimum of [maxCapacity] and 1.5 * [capacity].
     * The returned ring buffer contains the same elements as
     * this ring buffer.
     */
    fun expanded(maxCapacity: Int): RingBuffer<T> {
        val newCapacity = (capacity + (capacity shr 1) + 1).coerceAtMost(maxCapacity)
        val newBuffer = if (startIndex == 0)
            buffer.copyOf(newCapacity)
        else
            toArray(arrayOfNulls(newCapacity))
        return RingBuffer(newBuffer, size)
    }

    /**
     * Add [element] to the buffer or fail with [IllegalStateException] if no
     * free space available in the buffer.
     */
    fun add(element: T) {
        if (isFull()) {
            throw IllegalStateException("ring buffer is full")
        }

        buffer[startIndex.forward(size)] = element
        size++
    }

    /**
     * Removes [n] first elements from the buffer or fails with [IllegalArgumentException]
     * if not enough elements in the buffer to remove.
     */
    fun removeFirst(n: Int) {
        require(n >= 0) { "n shouldn't be negative but it is $n" }
        require(n <= size) { "n shouldn't be greater than the buffer size: n = $n, size = $size" }

        if (n > 0) {
            val start = startIndex
            val end = start.forward(n)

            if (start <= end) {
                buffer.fill(null, start, size)
                startIndex = end
                size -= n
            } else {
                buffer.fill(null, startIndex, capacity)
                startIndex = 0
                size -= n
            }
        }
    }

    @Suppress("NOTHING_TO_INLINE")
    private inline fun Int.forward(n: Int): Int = (this + n) % capacity
}

package kotlin.collections

// UByteArray

private fun partition(array: UByteArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(array: UByteArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UShortArray

private fun partition(array: UShortArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(array: UShortArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

// UIntArray

private fun partition(array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

private fun quickSort(array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}
erimentalUnsignedTypes
private fun partition(
    array: UIntArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: UIntArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

-Headers
=============================================================================
@ExperimentalUnsignedTypes
private fun partition(
    array: ULongArray, left: Int, right: Int): Int {
    var i = left
    var j = right
    val pivot = array[(left + right) / 2]
    while (i <= j) {
        while (array[i] < pivot)
            i++
        while (array[j] > pivot)
            j--
        if (i <= j) {
            val tmp = array[i]
            array[i] = array[j]
            array[j] = tmp
            i++
            j--
        }
    }
    return i
}

@ExperimentalUnsignedTypes
private fun quickSort(
    array: ULongArray, left: Int, right: Int) {
    val index = partition(array, left, right)
    if (left < index - 1)
        quickSort(array, left, index - 1)
    if (index < right)
        quickSort(array, index, right)
}

-Interfaces
=============================================================================
/**
 * Sorts the given array using qsort algorithm.
 */
@ExperimentalUnsignedTypes
private fun sortArray(array: UByteArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
private fun sortArray(array: UShortArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
private fun sortArray(array: UIntArray) = quickSort(array, 0, array.size - 1)
@ExperimentalUnsignedTypes
private fun sortArray(array: ULongArray) = quickSort(array, 0, array.size - 1)

---

* Sorts the given array using qsort algorithm.
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
* UseExperimental(ExperimentalContracts::class) annotation or by using the compiler argument `-Xuse-experimental=kotlin.contracts`.

---

* @Retention(AnnotationRetention.BINARY)
* @SinceKotlin("1.3")
* @Experimental
* @MustBeDocumented
* public annotation class ExperimentalContracts
* Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,
* can be used to describe the contract of a function.
* This type is used as a receiver type of the lambda function passed to the [contract] function.
* @see contracts

---

* Describes a situation when a function returns normally, without any exceptions thrown.
* Use the [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
* @sample contracts.returnsContract

---

* Describes a situation when a function returns normally with the specified return value.
* The possible values of [value] are limited to `true`, `false` or `null`.
* Use the [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
* @sample contracts.returnsContract

---

* Describes a situation when a function returns normally with any value that is not `null`.
* Use the [SimpleEffect.implies] function to describe a conditional effect that happens in such case.
* @sample contracts.returnsContract

---

* Specifies that the function parameter [lambda] is involved in place.
* This contract specifies that:
  1. the function [lambda] can only be invoked during the call of the owner function;
  2. it won't be invoked after that owner function call is completed;

---

Open Source Used In UCM Cloud Analyzer Service 1.0 2203
amount of times specified by the [kind] parameter.

* A function declaring the `callsInPlace` effect must be inline.

* Specifies how many times a function invokes its parameter.

* A function parameter will be invoked exactly once.

* A function parameter will be invoked at most once.

* A function parameter will be invoked at least once.

* A function parameter is called in place, but it's unknown how many times it can be called.

* The contract description must be at the beginning of a function and have at least one effect.

* Only the top-level functions can have a contract for now.

* The contract framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and intercept all coroutine continuations with [interceptContinuation] invocations.

* The key that defines the context interceptor.

* Returns continuation that wraps the original continuation, thus intercepting all resumptions.

* This function is invoked by coroutines framework when needed and the resulting continuations are cached internally per each instance of the original continuation.

* This function may simply return original continuation if it does not want to intercept this particular continuation.

* When the original continuation completes, coroutine framework invokes [releaseInterceptedContinuation] with the resulting continuation if it was intercepted, that is if the interceptContinuation had previously returned a different continuation instance.

public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>

* Invoked for the continuation instance returned by this interceptor's interceptContinuation invocation.

* @param continuation Continuation instance returned by this interceptor's interceptContinuation invocation.

* Do nothing by default.

---

Open Source Used In UCM Cloud Analyzer Service 1.0 2204
// Performance optimization for a singleton Key
@Suppress("UNCHECKED_CAST")
if (key === Key) this as E else null
// Performance optimization to a singleton Key
public override operator fun minusKey(key: CoroutineContext.Key<*>) : CoroutineContext =null
if (key === Key) EmptyCoroutineContext else this
/**
 * 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.coroutines

/**
 * Persistent context for the coroutine. It is an indexed set of [Element] instances.
 * An indexed set is a mix between a set and a map.
 * Every element in this set has a unique [Key].
 */
@SinceKotlin("1.3")
public interface CoroutineContext {

    /**
     * Returns the element with the given [key] from this context or `null`.
     */
    public operator fun <E : Element> get(key: Key<E>): E? and

    /**
     * Returns a context containing elements from this context and elements from
     * other [context].
     */
    public operator fun plus(context: CoroutineContext): CoroutineContext =
        if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation

    /**
     * Returns a context containing elements from this context, but without an element
     * with the specified [key].
     */
    public fun minusKey(key: Key<*>): CoroutineContext

    /**
     * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.
     */
    public interface Key<E : Element>

    /**
     * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.
     */
    public interface Element : CoroutineContext {

        public override operator fun <E : Element> get(key: Key<E>): E? = null

        public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial

        public override fun plus(context: CoroutineContext): CoroutineContext = context

        public override fun minusKey(key: Key<*>): CoroutineContext =
            if (this.key == key) EmptyCoroutineContext else this

        public override fun hashCode(): Int = 0

        public override fun toString(): String = "EmptyCoroutineContext"
    }
}

public object EmptyCoroutineContext : CoroutineContext, Serializable {
    private const val serialVersionUID: Long = 0

    private fun readResolve(): Any = EmptyCoroutineContext

    public override fun <E : Element> get(key: Key<E>): E? = null

    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial

    public override fun minusKey(key: Key<*>) : CoroutineContext =
        if (this.key === Key) EmptyCoroutineContext else this

    public override fun public override fun minusKey(key: Key<*>) : CoroutineContext =
        if (this.key === Key) EmptyCoroutineContext else this

    public override fun public override fun minusKey(key: Key<*>) : CoroutineContext =
        if (this.key === Key) EmptyCoroutineContext else this

    public override fun public override fun minusKey(key: Key<*>) : CoroutineContext =
        if (this.key === Key) EmptyCoroutineContext else this

    public override fun public override fun plus(context: CoroutineContext): CoroutineContext = context

    public override fun public override fun minu...
private fun size(): Int {
    var cur = this
    var size = 2
    while (true) {
        cur = cur.left as? CombinedContext ?: return size
        size++
    }
}

private fun contains(element: Element): Boolean =
    get(element.key) == element

private fun containsAll(context: CombinedContext): Boolean {
    var cur = context
    while (true) {
        if (!contains(cur.element)) return false
        val next = cur.left
        if (next is CombinedContext) {
            cur = next
        } else {
            return contains(next as Element)
        }
    }
}

override fun equals(other: Any?): Boolean =
    this === other || other is CombinedContext && other.size() == size() &&
    other.containsAll(this)

override fun hashCode(): Int = left.hashCode() + element.hashCode()

override fun toString(): String =
    "[" + fold("") { acc, element ->
        if (acc.isEmpty()) element.toString() else
        "$acc, $element"
    } + "]"

private fun writeReplace(): Any {
    val n = size()
    val elements =
        arrayOfNulls<CoroutineContext>(n)
    var index = 0
    fold(Unit) { _, element -> elements[index++] = element }
    check(index == n)
    @Suppress("UNCHECKED_CAST")
    return Serialized(elements
        as Array<CoroutineContext>)
}

private class Serialized(val elements: Array<CoroutineContext>) :
    Serializable {
        companion object {
            private const val serialVersionUID: Long = 0L
        }

        private fun readResolve(): Any =
            elements.fold(EmptyCoroutineContext, CoroutineContext::plus)
    }
}
ProGuard <clinit> problem with multifile IntrinsicsKt class

@SinceKotlin("1.3")
public val

// Using enum here ensures two important properties:
// 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)
// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from
@PublishedApi //
internal enum

coroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }
HidesMembers

/**
 * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).
 */
@Target(AnnotationTarget.TYPE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
internal annotation class OnlyInputTypes

/**
 * Specifies that this function should not be called directly without inlining
 */
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)
@Retention(AnnotationRetention.BINARY)
internal annotation class InlineOnly

/**
 * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property.
 * The backing field of which is accessible at the point where the corresponding argument is passed.
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class AccessibleLateinitPropertyLiteral

/**
 * Specifies that this declaration can have dynamic receiver type.
 */
@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)
@Retention(AnnotationRetention.BINARY)
internal annotation class DynamicExtension

/**
 * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property.
 * The backing field of which is accessible at the point where the corresponding argument is passed.
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class AccessibleLateinitPropertyLiteral

/**
 * Specifies that this declaration is only completely supported since the specified version.
 * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.
 * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.
 * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.
 * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports
 * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILE_VERSION] and [RequireKotlinVersionKind.API_VERSION].
 * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin), the Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement on the language version.
 * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.
 */
@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)
@Retention(AnnotationRetention.SOURCE)
@Repeatable
@SinceKotlin("1.2")
internal annotation class RequireKotlin(
    val version: String,
    val message: String = "",
    val level: DeprecationLevel = DeprecationLevel.ERROR,
    val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,
    val errorCode: Int = -1
)

/**
 * The kind of the version that is required by [RequireKotlin].
 */
@SinceKotlin("1.2")
internal enum class RequireKotlinVersionKind {
    LANGUAGE_VERSION,
    COMPILER_VERSION,
    API_VERSION,
}

/**
 * Specifies that this declaration is a part of special DSL, used for constructing function's contract.
 */
@Target(AnnotationTarget.VALUE_PARAMETER)
@Retention(AnnotationRetention.BINARY)
@SinceKotlin("1.2")
internal annotation class ContractsDsl

package kotlin.properties

import kotlin.reflect.KProperty

/**
 * Standard property delegates.
 */
public object Delegates {
    /**
     * Returns a property delegate for a read/write property with a non-null value that is initialized not during construction but at a later time. Trying to read the property before the initial value has been assigned results in an exception.
     */
    @sample samples.properties.Delegates.notNullDelegate
    fun notNull(): ReadWriteProperty<Any?, *> = NotNullVar()

    /**
     * Returns a property delegate for a read/write property that calls a specified callback function when changed.
     */
    @param onChange
    fun Delegates.notNullDelegate<T : Any>(callback: (T) -> Unit): ReadWriteProperty<T> = NotNullVar()

    /**
     * Returns a property delegate for a read/write property that calls a specified callback function when changed.
     */
    @param onChange
    fun Delegates.notNullDelegate<T : Any>(callback: (T) -> Unit): ReadWriteProperty<T> = NotNullVar()
property
 * has already been changed when this callback is invoked.
 * @sample samples.properties.Delegates.observableDelegate
 */

public inline fun <T> observable(initialValue: T, oldValue: T, newVariable: T): -> Unit {

ReadWriteProperty<Any?, T> = object : ObservableProperty<T>(initialValue) {

override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)

/**
 * Returns a property delegate for a read/write property that calls a specified callback function when
changed.
 * @param initialVariable the initial value of the property.
 * @param onChange the callback which is called before a change to the property value is attempted.
 * @sample samples.properties.Delegates.observableDelegate
 */
    public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit): ReadWriteProperty<Any?, T> =
        object : ObservableProperty<T>(initialValue) {
            override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) {
                onChange(property, oldValue, newValue)
            }
        }

    /**
     * Returns a property delegate for a read/write property that calls a specified callback function when
changed.
     * @param initialVariable the initial value of the property.
     * @param onChange the callback which is called before a change to the property value is attempted.
     * @sample samples.properties.Delegates.observableDelegate
     */
    public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean): ReadWriteProperty<Any?, T> =
        object : ObservableProperty<T>(initialValue) {
            override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) {
                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
    }

    public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {
        this.value = value
    }
}

//
/*
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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.
 * //

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.
 * @param onChange the callback which is called before a change to the property value is attempted.
 * @sample samples.properties.Delegates.observableDelegate
 */
public abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?, T> {

    /**
     * The callback which is called before a change to the property value is attempted.
     * 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.observableDelegate
     */
    protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true

    /**
     * The callback which is called after the change of the property is made. The value of the property has already been changed when this callback is invoked.
     * @param initialVariable the initial value of the property.
     * @param onChange the callback which is called after a change to the property value is attempted.
     * @sample samples.properties.Delegates.observableDelegate
     */
    protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}
the specified [until] bound.

*ln * Generates an `Int` random value uniformly distributed between `0`
(inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextLong(from: Int, until: Int): Long =

nextLong(0, until) //***/
*ln * Gets the next random `Long` from the random number generator less than
specifying the specified range.
*ln * Generates an `Int` random value uniformly distributed between

the specified [from] (inclusive) and [until] (exclusive) bounds.
*ln * @throws IllegalArgumentOutOfRangeException if [from] is greater than or equal
to [until].
*ln * public open fun nextLong(from: Int, until: Int): Long =

nextLong(0, until) /***/
*ln * Gets the next random non-negative `Long` from the random number
generator less than the specified [until] bound.
*ln * Generates a `Double` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextLong(from: Long, until: Long): Long =

nextLong(0, until) /***/
*ln * Generates a `Long` random value uniformly distributed between `0`
(inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextLong(from: Long, until: Long): Long =

nextLong(0, until) /***/
*ln * Generates a `Long` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextLong(from: Long, until: Long): Long =

nextLong(0, until) /***/
*ln * Generates a `Long` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextLong(from: Long, until: Long): Long =

nextLong(0, until) /***/
*ln * Generates a `Long` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
*ln * @throws IllegalArgumentOutOfRangeException if [until] is negative or zero.
*ln * public open fun nextInt(from: Int, until: Int): Int =

nextInt(0, until) /***/
*ln * Generates an `Int` random value uniformly distributed between

0 (inclusive) and the specified [until] bound (exclusive).
*ln * @param until must be positive.
[array] starting from [fromIndex] inclusive and ending [toIndex] exclusive

* with random bytes.

* @return [array] with the subrange filled with random bytes.

* @public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray

  require(fromIndex in 0..<array.size && toIndex in 0..<array.size)

  require(fromIndex <= toIndex)

  val steps = (toIndex - fromIndex) / 4

  repeat(steps) {
      val v = nextInt()
      array[fromIndex] = v.toByte()
      array[fromIndex + 1] = v.ushr(8).toByte()
      array[fromIndex + 2] = v.ushr(16).toByte()
      array[fromIndex + 3] = v.ushr(24).toByte()
      fromIndex += 4
  }

  val remainder = toIndex - fromIndex
  val vr = nextBits(remainder * 8)
  for (i in 0 until remainder)
      array[fromIndex + i] = vr.ushr(i * 8).toByte()

  return array

* @public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray

  require(fromIndex in 0..<array.size && toIndex in 0..<array.size)

  require(fromIndex <= toIndex)

  val steps = (toIndex - fromIndex) / 4

  repeat(steps) {
      val v = nextInt()
      array[fromIndex] = v.toByte()
      array[fromIndex + 1] = v.ushr(8).toByte()
      array[fromIndex + 2] = v.ushr(16).toByte()
      array[fromIndex + 3] = v.ushr(24).toByte()
      fromIndex += 4
  }

  val remainder = toIndex - fromIndex
  val vr = nextBits(remainder * 8)
  for (i in 0 until remainder)
      array[fromIndex + i] = vr.ushr(i * 8).toByte()

  return array

* @public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))

* @companion object Default : Random

    private val defaultRandom: Random = defaultPlatformRandom()

    override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)

    override fun nextInt(): Int = defaultRandom.nextInt()

    override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)

    override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)

    override fun nextLong(): Long = defaultRandom.nextLong()

    override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)

    override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)

    override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()

    override fun nextDouble(): Double = defaultRandom.nextDouble()

    override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)

    override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)

    override fun nextFloat(): Float = defaultRandom.nextFloat()

    override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)

    override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)

    override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)

    @Deprecated("Use Default companion object instead", level = DeprecationLevel.HIDDEN)
    @Suppress("DEPRECATION_ERROR")
    @kotlin.jvm.JvmField

* @companion object Companion : Random

    override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)

* @sample

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get random in empty range: Srange("\n range.last < Int.MAX_VALUE \n \n range.first + 1)\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
 Random.nextLong(range: LongRange): Long = when (\n range.isEmpty()) \n -> throw IllegalArgumentException("Cannot get random in empty range: Srange("\n range.last < Long.MAX_VALUE \n \n range.first + 1)\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
 Random.nextUInt(range: UIntRange): UInt = when (\n range.isEmpty()) \n -> throw IllegalArgumentException("Cannot get random in empty range: Srange("\n range.last < UInt.MAX_VALUE \n \n range.first + 1)\n
 * Generates a `UInt` 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
 Random.nextULong(range: ULongRange): ULong = when (\n range.isEmpty()) \n -> throw IllegalArgumentException("Cannot get random in empty range: Srange("\n range.last < ULong.MAX_VALUE \n \n range.first + 1)\n
 * Generates a `ULong` 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")
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds. *\n* @throws IllegalArgumentException if [from] is greater than or equal to [until]. *\n
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
public fun Random.nextULong(from: ULong, until: ULong): ULong
    checkULongRangeBounds(from, until)
    val signedFrom = from.toULong() xor Long.MIN_VALUE
    val signedUntil = until.toULong() xor Long.MIN_VALUE
    val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE
    return signedResult.toULong() *\n
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
public fun Random.nextULong(range: ULongRange): ULong
    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)
    range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u
    else -> nextULong(range.first, range.last) + 1u
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
public fun Random.nextUByteArray(array: UByteArray): UByteArray
    return array.drop(range.fromIndex until range.toIndex) *\n
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
internal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
internal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }
*\n* @SinceKotlin("1.3") *\n* @ExperimentalUnsignedTypes
internal class XorWowRandom
*\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* @file:kotlin.jvm.JvmMultifileClass
*\n* @file:kotlin.jvm.JvmName("RangesKt")
*\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* @package kotlin.random
*\n* @Random number generator, algorithm \x22xorwow\x22 from p. 5 of Marsaglia, \x22Xorshift RNGs\x22. *\n* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
*\n* This interface is implemented by floating point ranges returned by \{Float.rangeTo\} and \{Double.rangeTo\} operators to achieve IEEE-754 comparison order instead of total order of floating point numbers.
*\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* @package kotlin.jvm
*\n* @JvmMultifileClass
*\n* @JvmName("RangesKt")
*\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* @package kotlin
*\n* @file:kernel
*\n* @file:kernelJvm
*\n* @file:kernelJvmName("RangesKt")
*\n* Open Source Used In UCM Cloud Analyzer Service 1.0 2213


Boolean = !lessThanOrEquals(start, endInclusive)

/**
 * Compares two values of range domain type and returns 
 * true if first is less than or equal to second.
 */
fun lessThanOrEquals(a: T, b: T): Boolean

/**
 * Represents a range of [Comparable] values.
 */
private open class ComparableRange<T : Comparable<T>>(
    override val start: T,
    override val endInclusive: T
) : ClosedRange<T> {

    override fun equals(other: Any?): Boolean {
        return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||
                start == other.start && endInclusive == other.endInclusive)
    }

    override fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()
    }

    override fun toString(): String = "$start..$endInclusive"
}

/**
 * A closed range of values of type Double.
 */
private class ClosedDoubleRange(
    start: Double,
    endInclusive: Double
) : ClosedFloatingPointRange<Double> {
    private val _start = start
    private val _endInclusive = endInclusive
    override val start: Double get() = _start
    override val endInclusive: Double get() = _endInclusive

    override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b

    override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive
    override fun isEmpty(): Boolean = !_start <= _endInclusive

    override fun equals(other: Any?): Boolean {
        return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||
                _start == other._start && _endInclusive == other._endInclusive)
    }

    override fun hashCode(): Int {
        return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()
    }

    override fun toString(): String = "$_start..$_endInclusive"
}

/**
 * Creates a range from this [Comparable] value to the specified 
 * [that] value.
 */
public operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)

/**
 * Creates a range from this [Double] value to the specified 
 * [that] value.
 */
@SinceKotlin("1.1")
public operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)

/**
 * Returns `true` if this iterable range contains the specified 
 * [element].
 * Always returns `false` if the [element] is `null`.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
    element != null && contains(element)

internal fun checkStepIsPositive(isPositive: Boolean, step: Number) {
    if (!isPositive)
        throw IllegalArgumentException("Step must be positive, was: $step.")
}

/*
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 */

package kotlin.reflect

/**
 * Returns a runtime representation of the given reified type [T] as an instance of [KType].
 */
@Suppress("unused") // KT-12448
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <reified T> typeOf(): KType =
    throw UnsupportedOperationException("This function is implemented as an intrinsic on all supported platforms.")

/*
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 */

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("CharsKt")
package kotlin.text

/**
 * Concatenates this Char and a String.
 */
@kotlin.internal.InlineOnly
public inline operator fun Char.plus(other: String): String = this.toString() + other

/**
 * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.
 */
public fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {
    if (this == other) return true
    if (!ignoreCase) return false

    if (this.toUpperCase() == other.toUpperCase()) return true
    if (this.toLowerCase() == other.toLowerCase()) return true
    return false
}

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false

*public fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE

**

* package kotlin.text

***Trim 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

```````\n' '| (pipe character).\n* \n* *param \n* replaceIndentByMargin("\", marginPrefix): String = "\": String {\n* require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank string." }\n* }\n```````

getIndentFunction(newIndent), { line ->\n* val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n* when {\n* firstNonWhitespaceIndex == -1 -> null\n* line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)}\n* else -> null\n* }\n* }\n```````

* \n* *\n* \n* Does not preserve the original line endings.\n* *param \n* replaceIndentByMargin(newIndent: String = "\", marginPrefix: Char = '|'): String =\n```````
```````

* \n* \n* Detects a common minimal indent of all the input lines, removes it from every line and

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`@package kotlin.text

@sinceKotlin("1.1")

public interface MatchNameGroupCollection : 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] in the regex pattern.
     * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.
     */
    public operator fun get(name: String): MatchGroup?
}

public interface MatchResult {
    /**
     * Represents the results from a single regular expression match.
     * @see kotlin.text.Match
     */
    public val range: IntRange
    public val value: String
    /**
     * A collection of groups matched by the regular expression.
     * @see kotlin.text.Match
     */
    public val groups: Collection<MatchGroup?>
}

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.
     * @throws IllegalArgument if the corresponding group in the regular expression is optional and there was no match captured by that group.
     */
    public operator fun get(index: Int): MatchGroup?
}

@sinceKotlin("1.1")

public interface MatchGroupCollection : Collection<MatchGroup?> {
    /**
     * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.
     * @see kotlin.text.Match
     */
    public val range: IntRange
    public val value: String
    /**
     * A collection of groups matched by the regular expression.
     * @see kotlin.text.Match
     */
    public val groups: Collection<MatchGroup?>
}

@sinceKotlin("1.1")

public interface MatchGroup {
    /**
     * Returns a group with the specified [name].
     * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.
     * @throws IllegalArgument if the corresponding group in the regular expression is optional and there was no match captured by that group.
     */
    public operator fun get(name: String): MatchGroup?
}

@sinceKotlin("1.1")

public interface MatchGroup : kotlin.text.MatchGroup {
    /**
     * Represents the results from a single regular expression match.
     * @see kotlin.text.Match
     */
    public val range: IntRange
    public val value: String
    /**
     * A collection of groups matched by the regular expression.
     * @see kotlin.text.Match
     */
    public val groups: Collection<MatchGroup?>
}

@sinceKotlin("1.1")

public interface Match {
    /**
     * Returns a match with the specified [pattern] and [input].
     * @return An instance of [Match] if the pattern matched the input.
     * @throws IllegalArgumentException if the pattern is invalid.
     */
    public val range: IntRange
    public val value: String
    /**
     * A collection of groups matched by the regular expression.
     * @see kotlin.text.Match
     */
    public val groups: Collection<MatchGroup?>
}
MatchGroupCollection
   /**
    * A list of matched indexed group values.
    * This list has size of `groupByCount + 1` where `groupByCount` is the count of groups in the regular expression.
    * Groups are indexed from 1 to `groupByCount` 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, an empty string
    * corresponding item in [groupByValues] is empty string.
    */
    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.
     * If the group in the regular expression is optional and there were no match captured by that group, an empty string.
     * * @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, 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]
        @kotlin.internal.InlineOnly
        public operator inline fun component8(): String = match.groupValues[8]
        @kotlin.internal.InlineOnly
        public operator inline fun component9(): String = match.groupValues[9]
        @kotlin.internal.InlineOnly
        public operator inline fun component10(): String = match.groupValues[10]

        /**
         * Returns destructured group values as a list of strings.
         * First value in the returned list corresponds to the value of the first group, and so on.
         * * @sample samples.text.Regexps.matchDestructuringToGroupValues
         */
        public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)
    }

    /*
     * 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.
     * 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

    /**
     * A source of time for measuring time intervals.
     * The only operation provided by the clock is [markNow]. It returns a [ClockMark], which can be used to query the elapsed time later.
     * * @see [measureTime]
     * * @see [measureTimedValue]
     */
    @SinceKotlin("1.3")
    @ExperimentalTime
    public interface Clock {
        /**
         * Marks a time point on this clock.
         * The returned [ClockMark] instance encapsulates captured time point
         * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).
         * * @sample samples.text.Regexps.matchDestructuringToGroupValues
         */
        public fun markNow(): ClockMark

        /**
         * Represents a time point notched on a particular [Clock]. Remains
         * bound to the clock it was taken from and allows querying for the duration of time elapsed from that point (see
         * the function [elapsedNow]).
         * * @sample samples.text.Regexps.matchDestructuringToGroupValues
         */
        public fun markNow(): ClockMark
    }

    /**
     * Returns the amount of time passed from this clock mark on the clock from which this mark was taken.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun elapsedNow(): Duration

    /**
     * Returns a clock mark on the same clock that is ahead of
     * this clock mark by the specified [duration].
     * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun plus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].
     * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun minus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is ahead of
     * this clock mark by the specified [duration].
     * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun plus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].
     * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun minus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is ahead of
     * this clock mark by the specified [duration].
     * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun plus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].
     * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun minus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is ahead of
     * this clock mark by the specified [duration].
     * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchDestructuringToGroupValues
     */
    public fun plus(duration: Duration): ClockMark

    /**
     * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].
     * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.
     * * @sample samples.text.Regexps.matchD destructuringToGroupValues
minus(duration: Duration): ClockMark = plus(-duration)
/**
 * Returns false if this clock mark has not passed according to the clock from which this mark was taken.
 */

public fun hasPassedNow(): Boolean = elapsedNow().isNegative()
/**
 * Returns false if this clock mark has not passed according to the clock from which this mark was taken.
 */

public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Subtracting one ClockMark from another is not a well defined operation because these clock marks could have been obtained from different clocks.", level = DeprecationLevel.ERROR)
public inline operator fun ClockMark.minus(other: ClockMark): Duration = throw Error("Operation is disallowed.")

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated("Comparing one ClockMark to another is not a well defined operation because these clock marks could have been obtained from different clocks.", level = DeprecationLevel.ERROR)
public inline operator fun ClockMark.compareTo(other: ClockMark): Int = throw Error("Operation is disallowed.")
IllegalStateException is thrown.
 */
@SinceKotlin("1.3")
@ExperimentalTime
public class TestClock :
AbstractLongClock(unit = DurationUnit.NANOSECONDS) {
    private var reading: Long = 0L
    override fun read(): Long = reading

    /**
     * Advances the current reading value of this clock by the specified
     * duration. *duration* value is rounded down towards zero when converting it to a [Long] number of
     * nanoseconds. * For example, if the duration being added is 0.6.nanoseconds, the clock reading won't
     * advance because *duration* is less than Long.MAX_VALUE *duration* will be rounded to zero nanoseconds.
     * @throws IllegalStateException when the reading value overflows as the result of this operation.
     */
    public operator fun plusAssign(duration: Duration) {
        val delta = duration.toDouble(unit)
        val longDelta = delta.toLong()
        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {
            // when delta fits in long, add
            // it as long
            val newReading = reading + longDelta
            if (reading xor longDelta >= 0 && reading xor newReading < 0)
                overflow(duration)
            newReading
        } else {
            // when delta is greater than long,
            // add it as double
            val newReading = reading + delta
            if (newReading > Long.MAX_VALUE ||
                newReading < Long.MIN_VALUE)
                overflow(duration)
            newReading.toLong()
        }
    }

    private fun overflow(duration: Duration) {
        throw IllegalStateException("TestClock will overflow if its reading
        $reading ns is advanced by $duration.")
    }
}

/*
public interface WallClock {
    fun
currentTimeMilliseconds(): Long

    companion object : WallClock, AbstractLongClock(unit =
    DurationUnit.MILLISECONDS) {
        override fun currentTimeMilliseconds(): Long =
        System.currentTimeMillis()
        override fun read(): Long = System.currentTimeMillis()
        override fun
        toString(): String = "WallClock(System.currentTimeMillis())"
    }
}
*/
divided by the given [scale] number. */
    public operator fun div(scale: Double): Duration = Duration(value / scale)

    /**
     * Returns a number that is the ratio of this and [other] duration values.
     */
    public operator fun div(other: Duration): Double = this.value / other.value

    /**
     * Returns true, if the duration value is less than zero.
     */
    public fun isNegative(): Boolean = value < 0

    /**
     * Returns true, if the duration value is greater than zero.
     */
    public fun isPositive(): Boolean = value > 0

    /**
     * Returns true, if the duration value is infinite.
     */
    public fun isInfinite(): Boolean = value.isInfinite()
/**
 * Returns the value of this duration expressed as a [Long] number of the specified [unit].
 * 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.
 */
public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()  
/**
 * Returns the value of this duration expressed as an [Int] number of the specified [unit].
 * If the value doesn't fit in the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.
 */
public fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()  
/**
 * The value of this duration expressed as a [Double] number of days.
 */
public val inDays: Double get() = toDouble(DurationUnit.DAYS)

/**
 * The value of this duration expressed as a [Double] number of hours.
 */
public val inHours: Double get() = toDouble(DurationUnit.HOURS)

/**
 * The value of this duration expressed as a [Double] number of minutes.
 */
public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)

/**
 * The value of this duration expressed as a [Double] number of seconds.
 */
public val inSeconds: Double get() = toDouble(DurationUnit.SECONDS)

/**
 * The value of this duration expressed as a [Double] number of milliseconds.
 */
public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)

/**
 * The value of this duration expressed as a [Double] number of nanoseconds.
 */
public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSCONDS)

// shortcuts

/**
 * Returns the value of this duration expressed as a [Long] number of nanoseconds.
 * 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.
 * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately ±292 years.
 */
public fun toLongNanoseconds(): Long = toLong(DurationUnit.NANOSCONDS)

/**
 * Returns the value of this duration expressed as a [Long] number of milliseconds.
 * 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.
 * The range of durations that can be expressed as a 'Long' number of milliseconds is approximately ±292 million years.
 */
public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)

/**
 * Returns a string representation of this duration value expressed in the unit which yields the most compact and readable number value.
 * Special cases:
 * - zero duration is formatted as "0s"
 * - the infinite duration is formatted as "Infinity" without unit
 * - very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation
 * - very big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation
 * - @return the value of duration in the automatically determined unit followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.
 * @sample samples.time.Durations.toStringDefault
 */
override fun toString(): String = when {
    isInfinite() -> value.toString()
    value == 0.0 -> "0s"
    else -> {
        val absNs = absoluteValue.inNanoseconds
        var scientific = false
        var maxDecimals = 0
        val unit = when {
            absNs < 1e-6 -> DurationUnit.NANOSCONDS
            absNs < 1 -> DurationUnit.NANOSCONDS
            absNs < 1e3 -> DurationUnit.MICROSECONDS
            absNs < 1e6 -> DurationUnit.MICROSECONDS
            absNs < 1000e9 -> DurationUnit.SECONDS
            absNs < 60_000e9 -> DurationUnit.MINUTES
            absNs < 3600_000e9 -> DurationUnit.HOURS
            absNs < 86400e9 -> DurationUnit.DAYS
            else -> DurationUnit.DAYS
        }
        val value = toDouble(unit)
        when {
            scientific -> formatScientific(value)
            maxDecimals > 0 -> formatUpToDecimals(value, maxDecimals)
            else -> formatToExactDecimals(value, precision(abs(value)))
        } + unit.shortName() + var absNs = absoluteValue.inNanoseconds
    }
}

private fun precision(value: Double): Int = when {
    value < 1 -> 3
    value < 10 -> 2
    value < 100 -> 1
    else -> 0
}

/**
 * Returns a string representation of this duration value expressed in the given [unit] and formatted with the specified [decimals] number of digits after decimal point.
 * - the infinite duration is formatted as "Infinity" without unit
 * - @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.
 */
public fun toString(unit: DurationUnit, decimals: Int = 0): String {
    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }
    if (isInfinite()) return value.toString()
    val number = toDouble(unit)
    return when {
        abs(number) < 1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))
        else -> formatScientific(number)
    } + unit.shortName
}

public fun toIsoString(): String = buildString {
    if (isNegative()) append('-')
    append("PT")
    absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->
        if (hasHours) { append(hours).append('H') }
        if (hasMinutes) { append(minutes).append('M') }
        if (hasSeconds || (!hasHours && !hasMinutes)) {
            append(seconds)
            if (nanoseconds != 0) {
                append('.')
                val nss = nanoseconds.toString().padStart(9, '0')
                when {
                    nanoseconds % 1_000_000 == 0 -> append(nss, 0, 3)
                    nanoseconds % 1_000 == 0 -> append(nss, 0, 6)
                    else -> append(nss)
                }
                append('S')
            }
        }
    }
}

extension functions

fun Int.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)

fun Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)

fun Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))

extension properties

val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)

val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)

val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)

val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)

val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)

val Int.seconds get() = toDuration(DurationUnit.SECONDS)

val Long.seconds get() = toDuration(DurationUnit.SECONDS)

val Double.seconds get() = toDuration(DurationUnit.SECONDS)
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Long.seconds get() =
toDuration(DurationUnit.SECONDS)/** Returns a [Duration] equal to this [Double] number of seconds.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Double.seconds get() =
toDuration(DurationUnit.SECONDS)/** Returns a [Duration] equal to this [Long] number of minutes.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Int.minutes get() =
toDuration(DurationUnit.MINUTES)/** Returns a [Duration] equal to this [Long] number of minutes.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Double.minutes get() =
toDuration(DurationUnit.MINUTES)/** Returns a [Duration] equal to this [Double] number of minutes.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Int.hours get() =
toDuration(DurationUnit.HOURS)/** Returns a [Duration] equal to this [Double] number of hours.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Long.hours get() =
toDuration(DurationUnit.HOURS)/** Returns a [Duration] equal to this [Long] number of hours.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Double.hours get() =
toDuration(DurationUnit.HOURS)/** Returns a [Duration] equal to this [Double] number of hours.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Int.days get() =
toDuration(DurationUnit.DAYS)/** Returns a [Duration] equal to this [Long] number of days.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Long.days get() =
toDuration(DurationUnit.DAYS)/** Returns a [Duration] equal to this [Double] number of days.
*\@SinceKotlin("1.3")\@ExperimentalTime\public val Double.days get() =
toDuration(DurationUnit.DAYS)**/ Returns a duration whose value is the specified [duration] value
multiplied by this number. *\@SinceKotlin("1.3")\@ExperimentalTime\@kotlin.internal.InlineOnly\public inline
operator fun Int.times(duration: Duration): Duration = duration * this
*\@SinceKotlin("1.3")\@ExperimentalTime\@kotlin.internal.InlineOnly\public inline operator fun
Double.times(duration: Duration): Duration = duration * this

internal expect fun formatToExactDecimals(value: Double, decimals: Int): String
internal expect fun formatUpToDecimals(value: Double, decimals: Int): String
internal expect fun formatScientific(value: Double): String

@file:kotlin.jvm.JvmMultifileClass()
@file:kotlin.jvm.JvmName("DurationUnitKt")

package
kotlin.time

/**
 * The list of possible time measurement units, in which a duration can be expressed.
 * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
 * [HOURS].
 */
@SinceKotlin("1.3")
@ExperimentalTime
internal expect enum class DurationUnit {
    /**
     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.
     */
    NANOSECONDS,
    /**
     * Time unit representing one microsecond, which is 1/1000 of a millisecond.
     */
    MICROSECONDS,
    /**
     * Time unit representing one millisecond, which is 1/1000 of a second.
     */
    MILLISECONDS,
    /**
     * Time unit representing one second.
     */
    SECONDS,
    /**
     * Time unit representing one minute.
     */
    MINUTES,
    /**
     * Time unit representing one hour.
     */
    HOURS,
    /**
     * Time unit representing one day, which is always equal to 24 hours.
     */
    DAYS;
}

/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
 * [targetUnit].
 */
@SinceKotlin("1.3")
@ExperimentalTime
internal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double

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Comparable<KotlinVersion> { /* */
    public constructor(major: Int, minor: Int) : this(major, minor, 0)

    private val version = versionOf(major, minor, patch)

    private fun versionOf(major: Int, minor: Int, patch: Int): Int {
        require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {
            "Version components are out of range: $major.$minor.$patch"
        }
        return major.shl(16) + minor.shl(8) + patch
    }

    /**
     * Returns the string representation of this version
     */
    override fun toString(): String = "$major.$minor.$patch"

    override fun equals(other: Any?): Boolean {
        if (this === other) return true
        val otherVersion = (other as? KotlinVersion) ?: return false
        return this.version == otherVersion.version
    }

    override fun hashCode(): Int = version

    override fun compareTo(other: KotlinVersion): Int = version - other.version

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major] and [minor] components.
     */
    public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)
        this.major > major || (this.major == major &&
                this.minor >= minor)

    /**
     * Returns `true` if this version is not less than the version specified
     * with the provided [major], [minor] and [patch] components.
     */
    public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)
        this.major > major || (this.major == major &&
                this.minor > minor || this.minor == minor
                && this.patch >= patch)

    companion object {
        /**
         * Maximum value a version component can have, a constant value 255.
         */
        // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS
        public const val MAX_COMPONENT_VALUE = 255

        /**
         * Returns the current version of the Kotlin standard library.
         */
        @kotlin.jvm.JvmField
        public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 61) // value is written here automatically during build
    }
}

@file:kotlin.jvm.JvmName("LateinitKt")
@file:Suppress("unused")

package kotlin

import kotlin.internal.InlineOnly
import kotlin.internal.AccessibleLateinitPropertyLiteral
import kotlin.reflect.KProperty0

/**
 * Returns `true` if this lateinit property has been assigned a value, and `false`
 * otherwise.
 * Cannot be used in an inline function, to avoid binary compatibility issues.
 */
@SinceKotlin("1.2")
@InlineOnly
inline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean
    get() = throw NotImplementedError("Implementation is intrinsic")

@file:kotlin.jvm.JvmName("LazyKt")
@file:kotlin.jvm.JvmMultifileClass

package kotlin

import kotlin.reflect.KProperty

/**
 * Represents a value with lazy initialization.
 * To create an instance of Lazy use the lazy function.
 */
public interface Lazy<out T> {
    /**
     * Gets the lazily initialized value of the current Lazy instance.
     * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.
     */
    public val value: T

    /**
     * Returns `true` if a value for this Lazy instance has been initialized, and `false` otherwise.
     * Cannot be used in an inline function, to avoid binary compatibility issues.
     */
    public fun isInitialized(): Boolean

    /**
     * Specifies how a Lazy instance synchronizes initialization among multiple threads.
     */
    public enum class LazyThreadSafetyMode {
        /**
         * Locks are used to ensure that only a single thread can initialize the Lazy instance.
         * This extension allows to use instances of Lazy for property delegation:
         * `val property: String by lazy { initializer }`
         */
        SYNCHRONIZED,

        /**
         * An extension to delegate a read-only property of type [T] to an instance of Lazy.
         */
        PUBLICATION
    }

    /**
     * Returns `true` if this Lazy instance has been already initialized, and `false` otherwise.
     * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.
     * An extension to delegate a read-only property of type [T] to an instance of Lazy.
     * Locks are used to ensure that only a single thread can initialize the Lazy instance.
     * **Synchronized** initialization function can be called several times on concurrent access to uninitialized Lazy instance value, but only the first returned value will be used as the value of Lazy instance.
     */

locks are used to synchronize an access to the `[Lazy]` instance value; if the instance is accessed from multiple threads, its behavior is undefined.

*This mode should not be used unless the `[Lazy]` instance is guaranteed never to be initialized from more than one thread.*

```kotlin
UNINITIALIZED_VALUE

// internal to be called from lazy in JS

internal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {
    private var initializer: (() -> T)? = initializer
    private var _value: Any? = UNINITIALIZED_VALUE

    override val value: T
        get() {
            if (_value === UNINITIALIZED_VALUE) {
                _value = initializer!!()}
            }

    override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE

    override fun toString(): String = if (isInitialized())
        _value.toString() else _Lazy value not initialized yet.

    override fun writeReplace(): Any =
        InitializedLazyImpl(value)
}

internal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {
    override fun isInitialized(): Boolean = true

    override fun toString(): String = value.toString()
}
```

---

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* Returns a number having a single bit set in the position of the least significant set bit of this [Long] number, \* or zero, if this number is zero.\n
```kotlin
public expect fun Long.takeLowestOneBit(): Long
```

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: \n
```kotlin
number.rotateLeft(-n) == number.rotateRight(n)
```

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally:

```kotlin
number.rotateLeft(n % 64) == number.rotateLeft(n % 64)
```

The most 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: \n
```kotlin
number.rotateRight(-n) == number.rotateLeft(n)
```

Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally:

```kotlin
number.rotateRight(n % 64) == number.rotateRight(n % 64)
```

### Byte

```kotlin
public inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()
```

```kotlin
public inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()
```

```kotlin
public fun Byte.rotateLeft(bitCount: Int): Byte =
```

```kotlin
public fun Byte.rotateRight(bitCount: Int): Byte =
```

```kotlin
public inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()
```

```kotlin
public inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)
```

```kotlin
public inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()
```

### Short

```kotlin
public inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()
```

```kotlin
public inline fun Short.countLeadingZeroBits(): Int = (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)
```

### Long

```kotlin
public inline fun Long.countOneBits(): Int = (toInt() and 0xFFFFFFFF).countOneBits()
```

```kotlin
public inline fun Long.countLeadingZeroBits(): Int = (toInt() and 0xFFFFFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Long.SIZE_BITS)
```

```kotlin
public inline fun Long.countTrailingZeroBits(): Int = (toInt() or 0x100000000).countTrailingZeroBits()
```

```kotlin
public inline fun Long.takeHighestOneBit(): Long = (toInt() and 0xFFFFFFFF).takeHighestOneBit().toLong()
```

```kotlin
public inline fun Long.takeLowestOneBit(): Long = toInt().takeLowestOneBit().toLong()
```

```kotlin
public fun Long.rotateLeft(bitCount: Int): Long =
```

```kotlin
public fun Long.rotateRight(bitCount: Int): Long =
```

```kotlin
public inline fun Long.countOneBits(): Int = (toInt() and 0xFFFFFFFF).countOneBits()
```

```kotlin
public inline fun Long.countLeadingZeroBits(): Int = (toInt() and 0xFFFFFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Long.SIZE_BITS)
```

```kotlin
public inline fun Long.countTrailingZeroBits(): Int = (toInt() or 0x100000000).countTrailingZeroBits()
```

```kotlin
public inline fun Long.takeHighestOneBit(): Long = (toInt() and 0xFFFFFFFF).takeHighestOneBit().toLong()
```

```kotlin
public inline fun Long.takeLowestOneBit(): Long = toInt().takeLowestOneBit().toLong()
```

```kotlin
public fun Long.rotateLeft(bitCount: Int): Long =
```

```kotlin
public fun Long.rotateRight(bitCount: Int): Long =
```

```kotlin
public inline fun Long.countOneBits(): Int = (toInt() and 0xFFFFFFFF).countOneBits()
```

```kotlin
public inline fun Long.countLeadingZeroBits(): Int = (toInt() and 0xFFFFFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Long.SIZE_BITS)
```

```kotlin
public inline fun Long.countTrailingZeroBits(): Int = (toInt() or 0x100000000).countTrailingZeroBits()
```
public inline fun Short.countLeadingZeroBits(): Int =
    (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS -
    Short.SIZE_BITS)

/**
 * Counts the number of consecutive least significant bits that are zero in the binary
 * representation of this [Short] number.
 */
public inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()

/**
 * Returns a number
 * having a single bit set in the position of the least significant set bit of this [Short] number.
 * 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:
 */
public fun Short.rotateLeft(bitCount: Int): Short =
    (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()

/**
 * Rotates the binary
 * representation of this [Short] number left by the specified [bitCount] number of bits.
 * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
 */
public fun Short.rotateRight(bitCount: Int): Short =
    (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()
Purpose. Two triples are equal if all three components are equal. An example of decomposing it into values:

```kotlin
val triple: Triple<Int, Int, Int> = Triple(1, 2, 3)
```

Returns string representation of the [Triple] including its [first], [second] and [third] values.

```kotlin
val triple: Triple<Int, Int, Int> = Triple(1, 2, 3)
```

Unpacks a triple into its components:

```kotlin
val triple: Triple<Int, Int, Int> = Triple(1, 2, 3)
```

Overloads the `apply` function to create a tuple from a list.

```kotlin
val list = listOf(1, 2, 3)
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The first element in the progression.

```kotlin
val firstElement = progression.first
```

The last element in the progression.

```kotlin
val lastElement = progression.last
```

The step of the progression.

```kotlin
val step = progression.step
```

Checks if the progression is empty.

```kotlin
if (progression.isEmpty()) {
    // do something
}
```

Converses a triple into a list.

```kotlin
val list = triple.toList()
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The step of the progression.

```kotlin
val step = progression.step
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The step of the progression.

```kotlin
val step = progression.step
```

Checks if the progression is empty.

```kotlin
if (progression.isEmpty()) {
    // do something
}
```

Converses a triple into a list.

```kotlin
val list = triple.toList()
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The step of the progression.

```kotlin
val step = progression.step
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The step of the progression.

```kotlin
val step = progression.step
```

Checks if the progression is empty.

```kotlin
if (progression.isEmpty()) {
    // do something
}
```

Converses a triple into a list.

```kotlin
val list = triple.toList()
```

A range of values of type `UInt`.

```kotlin
val range = UIntRange(1, 10)
```

The step of the progression.

```kotlin
val step = progression.step
```

Checks if the progression is empty.

```kotlin
if (progression.isEmpty()) {
    // do something
}
```

Converses a triple into a list.

```kotlin
val list = triple.toList()
```
step.toULong() // use 2-complement math for negative steps
private var next = if (hasNext) finalElement

    override fun hasNext(): Boolean = hasNext

    override fun nextULong(): ULong {
        val value = next
        if (value == finalElement) {
            if (!hasNext) throw kotlin.NoSuchElementException()
            hasNext = false
        } else {
            next += step
        }
        return value
    }
}

/*
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package kotlin.math

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: UInt, b: UInt): UInt {
    return minOf(a, b)
}

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun min(a: ULong, b: ULong): ULong {
    return minOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: UInt, b: UInt): UInt {
    return maxOf(a, b)
}

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun max(a: ULong, b: ULong): ULong {
    return maxOf(a, b)
}
Counts the number of set bits in the binary representation of this [ULong] number.

```kotlin
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULong.countOneBits(): Int = toLong().countOneBits() \non /* * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits() \non /* * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits() \non /* * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number, \non * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong() \non /* * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number, \non * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong() \non /* * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits. \non * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. \non * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count. \non * `number.rotateLeft(-n) == number.rotateRight(n)` \non * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally \non * `number.rotateLeft(n % 64)` \non * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits. \non * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. \non * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count. \non * `number.rotateRight(-n) == number.rotateLeft(n)` \non * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally \non * `number.rotateRight(n % 64)` \non * Counts the number of set bits in the binary representation of this [UByte] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun UByte.countOneBits(): Int = toUInt().countOneBits() \non /* * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits() \non /* * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits() \non /* * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number, \non * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte() \non /* * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number, \non * or zero, if this number is zero.

@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
y
public inline fun UByte.rotateLeft(bitCount: Int): UByte = toInt().rotateLeft(bitCount).toUByte() \non /* * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits. \non * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count. \non * `number.rotateLeft(-n) == number.rotateRight(n)` \non * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally \non * `number.rotateLeft(n % 8)` \non * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits. \non * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. \non * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count. \non * `number.rotateRight(-n) == number.rotateLeft(n)` \non * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally \non * `number.rotateRight(n % 8)`
Rotates the binary representation of this [UByte] 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.

* `number.rotateLeft(-n) == number.rotateRight(n)` * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally `number.rotateLeft(n) == number.rotateRight(n % 8)`

* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:

* `number.rotateRight(-n) == number.rotateLeft(n)` * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally `number.rotateRight(n) == number.rotateLeft(n % 8)`

Counts the number of set bits in the binary representation of this [UShort] number.

* Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.

* Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.

* Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number, or zero, if this number is zero.

* Rotates the binary representation of this [UShort] 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.

* `number.rotateLeft(-n) == number.rotateRight(n)` * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally `number.rotateLeft(n) == number.rotateRight(n % 16)`

* 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)` * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally `number.rotateRight(n) == number.rotateLeft(n % 16)`

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private fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

private fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {
    val ac = a % c
    val bc = b % c
    return if (ac >= bc) ac - bc else ac - bc + c
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e., the last element of the progression which is in the range starting from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step initial increment of the progression
 * @param end end boundary for the progression
 * @param step initial increment of the progression
 * @return the final element of the progression
 * @suppress
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * Calculates the final element of a bounded arithmetic progression, i.e., the last element of the progression which is in the range from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative [step].
 * @param start first element of the progression
 * @param end ending bound for the progression
 * @param step initial increment of the progression
 * @param end end boundary for the progression
 * @param step initial increment of the progression
 * @return the final element of the progression
 * @suppress
 */
@PublishedApi
@SinceKotlin("1.3")
internal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {
    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())
    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())
    else -> throw kotlin.IllegalArgumentException("Step is zero.")
}

/**
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UShort.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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)

/**
 * 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("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))

/**
 * Parses the string as a signed [UByte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [UShort] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [ULong] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)

/*
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 * and Kotlin Programming Language contributors.
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 * that can be found in the license/LICENSE.txt file.
 */

@file:kotlin.jvm.JvmName("UStringsKt")  // string representation of unsigned numbers

package kotlin.text

/**
 * 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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UByte.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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UShort.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.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)

/**
 * 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("1.3")
@ExperimentalUnsignedTypes
//@kotlin.internal.InlineOnly
public /*inline*/ fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))

/**
 * Parses the string as a signed [UByte] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [UShort] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a signed [ULong] number and returns the result.
 * @throws NumberFormatException if the string is not a valid radix for number to string conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)
number and returns the result.

@throws NumberFormatException if the string is not a valid representation of a number.

number and returns the result.

@throws NumberFormatException if the string is not a valid representation of a number.

@throws NumberFormatException if the string is not a valid representation of a number.

*/

@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(): UShort =
    toUShortOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [UShort] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShort(radix: Int): UShort =
    toUShortOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as an [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(): UInt =
    toUIntOrNull() ?: numberFormatError(this)

/**
 * Parses the string as an [UInt] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUInt(radix: Int): UInt =
    toUIntOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as a [ULong] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULong(): ULong =
    toULongOrNull() ?: numberFormatError(this)

/**
 * Parses the string as a [ULong] number and returns the result.
 * @throws NumberFormatException if the string is not a valid representation of a number.
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULong(radix: Int): ULong =
    toULongOrNull(radix) ?: numberFormatError(this)

/**
 * Parses the string as an [UByte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByteOrNull(): UByte? =
    toUByteOrNull(radix = 10)

/**
 * Parses the string as an [UByte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public

/**
 * Parses the string as an [UByte] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUByteOrNull(radix: Int): UByte? {
    val int = this.toUIntOrNull(radix) ?: return null
    if (int > UByte.MAX_VALUE) return null
    return int.toUByte()
}

/**
 * Parses the string as an [UShort] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShortOrNull(): UShort? =
    toUShortOrNull(radix = 10)

/**
 * Parses the string as an [UShort] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public

/**
 * Parses the string as an [UInt] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUIntOrNull(): UInt? =
    to UIntOrNull(radix = 10)

/**
 * Parses the string as an [UInt] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 *
 * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public

/**
 * Parses the string as a [UShort] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toUShortOrNull(radix: Int): UShort? {
    checkRadix(radix)

    val length = this.length
    if (length == 0)
        return null

    val limit: UInt = UInt.MAX_VALUE
    val start: Int

    val limitForMaxRadix = 119304647u  //  limit / 36

    var limitBeforeMul = limitForMaxRadix
    val uradix = radix.toUInt()
    var result = 0u
    for (i in start until length) {
        val digit = digitOf(this[i], radix)

        if (digit < 0) return null
        if (result > limitBeforeMul) {
            if (limitBeforeMul == limitForMaxRadix) {
                return null
            } else {
                return null
            }
        }

        result *= uradix

        val beforeAdding =
result
    result += digit.toUShort()
    if (result < beforeAdding) return null // overflow has happened
    return result
}

/**
 * Parses the string as an [ULong] number and returns the result
 * or `null` if the string is not a valid representation of a number.
 * @param input The string to parse.
 * @param radix The radix to interpret the string by.
 * @return The parsed ULong or `null` if parsing failed.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun String.toULongOrNull(radix: Int): ULong? {
    checkRadix(radix)
    val length = this.length
    if (length == 0) return null
    val limit: ULong = ULong.MAX_VALUE
    val start: Int
    val firstChar = this[0]
    if (firstChar < '0') {
        if (length == 1 || firstChar != '+') return null
        start = 1
    } else {
        start = 0
    }
    val limitForMaxRadix = 51240957603043100uL // limit / 36
    val var limitBeforeMul = limitForMaxRadix
    val uradix = radix.toULong()
    var result = 0uL
    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 / uradix
                if (result > limitBeforeMul) {
                    return null
                }
            } else {
                return null
            }
        }
        result *= uradix
        val beforeAdding = result
        result += digit.toUInt()
        if (result < beforeAdding) return null // overflow has happened
    }
    return result
}

@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("MathKt")

package kotlin.math

/**
 * Computes the sine of the angle [x]
 * given in radians.
 * @param x The angle in radians.
 * @return The sine of the angle in radians.
 */
@SinceKotlin("1.2")
public expect fun sin(x: Double): Double

/**
 * Computes the cosine of the angle [x]
 * given in radians.
 * @param x The angle in radians.
 * @return The cosine of the angle in radians.
 */
@SinceKotlin("1.2")
public expect fun cos(x: Double): Double

/**
 * Computes the tangent of the angle [x]
 * given in radians.
 * @param x The angle in radians.
 * @return The tangent of the angle in radians.
 */
@SinceKotlin("1.2")
public expect fun tan(x: Double): Double

/**
 * Computes the arcsine of the angle in radians.
 * @param x The angle in radians.
 * @return The arcsine of the angle in radians.
 */
@SinceKotlin("1.2")
public expect fun asin(x: Double): Double

/**
 * Computes the arccosine of the angle in radians.
 * @param x The angle in radians.
 * @return The arccosine of the angle in radians.
 */
@SinceKotlin("1.2")
public expect fun acos(x: Double): Double

package kotlin.annotation

import kotlin.annotation.AnnotationTarget.*
import kotlin.internal.RequireKotlin
import kotlin.internal.RequireKotlinVersionKind

/**
 * Marks the API that is dependent on the experimental unsigned
 * types, including those types themselves.
 * Uses of such API will be reported as warnings unless an explicit
 * opt-in within
 * or with the `-Xuse-experimental=kotlin.ExperimentalUnsignedTypes` compiler option is given.
 * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this
 * annotation.
 */
@Experimental(level = Experimental.Level.WARNING)
@MustBeDocumented
@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
@Retention(AnnotationRetention.BINARY)
@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
public annotation class ExperimentalUnsignedTypes
This function can be implemented to produce more precise result for \(x\) near zero.

Special cases:
- `-atan(NaN)` is `NaN`
- `atan(0)` is `0.0` for \(x > 0\) and `-PI/2` for \(x < 0\)
- `-atan2(0.0, 0.0)` is `0.0` for \(x > 0\) and `-PI/2` for \(x < 0\)
- `-atan2(y, -Inf)` is `0.0` for \(x < 0\) and `-PI/2` for \(y > 0\)
- `-atan2(y, 0.0)` is `-PI/2` for finite \(x\) and `+PI/2` for finite \(y\)
- `-atan2(-Inf, x)` is `-PI/2` for finite \(x\) and `+PI/2` for finite \(y\)

\[\text{atan2}(y, x) = \arctan \left( \frac{y}{x} \right) \text{ for } x \neq 0 \text{ and } y \neq 0\]

\[\text{atan2}(0, x) = \begin{cases} \pi & \text{if } x < 0 \\ 0 & \text{if } x = 0 \end{cases}\]

\[\text{atan2}(y, 0) = \begin{cases} 0 & \text{if } y > 0 \\ \pi & \text{if } y < 0 \end{cases}\]

\[\text{atan2}(\pm Inf, 0) = \begin{cases} \pm \frac{\pi}{2} & \text{if } x = 0 \end{cases}\]

\[\text{atan2}(\pm Inf, \pm Inf) = \begin{cases} \frac{\pi}{4} & \text{if } x > 0, y > 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y < 0 \\ \frac{\pi}{4} & \text{if } x > 0, y < 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y > 0 \end{cases}\]

\[\text{atan2}(0, \pm Inf) = \begin{cases} 0 & \text{if } x > 0 \\ \pm \pi & \text{if } x < 0 \end{cases}\]

\[\text{atan2}(\pm Inf, \pm Inf) = \begin{cases} \frac{\pi}{4} & \text{if } x > 0, y > 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y < 0 \\ \frac{\pi}{4} & \text{if } x > 0, y < 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y > 0 \end{cases}\]

\[\text{atan2}(\pm Inf, 0) = \begin{cases} \frac{\pi}{2} & \text{if } x > 0 \\ \frac{\pi}{2} & \text{if } x < 0 \end{cases}\]

\[\text{atan2}(0, \pm Inf) = \begin{cases} 0 & \text{if } y > 0 \\ \pm \pi & \text{if } y < 0 \end{cases}\]

\[\text{atan2}(\pm Inf, \pm Inf) = \begin{cases} \frac{\pi}{4} & \text{if } x > 0, y > 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y < 0 \\ \frac{\pi}{4} & \text{if } x > 0, y < 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y > 0 \end{cases}\]

\[\text{atan2}(\pm Inf, 0) = \begin{cases} \frac{\pi}{2} & \text{if } x > 0 \\ \frac{\pi}{2} & \text{if } x < 0 \end{cases}\]

\[\text{atan2}(0, \pm Inf) = \begin{cases} 0 & \text{if } y > 0 \\ \pm \pi & \text{if } y < 0 \end{cases}\]

\[\text{atan2}(\pm Inf, \pm Inf) = \begin{cases} \frac{\pi}{4} & \text{if } x > 0, y > 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y < 0 \\ \frac{\pi}{4} & \text{if } x > 0, y < 0 \\ \frac{3\pi}{4} & \text{if } x < 0, y > 0 \end{cases}\]

\[\text{atan2}(\pm Inf, 0) = \begin{cases} \frac{\pi}{2} & \text{if } x > 0 \\ \frac{\pi}{2} & \text{if } x < 0 \end{cases}\]

\[\text{atan2}(0, \pm Inf) = \begin{cases} 0 & \text{if } y > 0 \\ \pm \pi & \text{if } y < 0 \end{cases}\]
\`\ln{1p}(\text{NaN})\` is \text{NaN}\n * - \`\ln{1p}(x)\` is \text{NaN} where \`x < -1.0\`\n * - \`\ln{1p}(-1.0)\` is \text{-Inf}\n * - \`\ln{1p}(+Inf)\` is \text{+Inf}\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{ceil}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{floor}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{truncate}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the closest integer with ties rounded towards even integer.\n * \@return the smallest double value that is greater than or equal to the given value [x].\n * Special cases:\n * - \`\text{round}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the smallest double value that is greater than or equal to the given value [x].\n * Special cases:\n * - \`\text{abs}(\text{NaN})\` is \text{NaN}\n * \@see \text{abs} extension property for \text{Double}\n * \@return the sign of the given value [x]\n * - \`\text{-1.0}\` if the value is negative,\n * - \`\text{0.0}\` if the value is zero,\n * - \`\text{1.0}\` if the value is positive\n * Special case:\n * - \`\text{sign}(\text{NaN})\` is \text{NaN}\n * \@return the smallest of two values.\n * \@return the closest integer with ties rounded towards even integer.\n * \@return the smallest double value that is greater than or equal to the given value [x].\n * Special cases:\n * - \`\text{abs}(\text{NaN})\` is \text{NaN}\n * \@see \text{abs} extension property for \text{Double}\n * \@return the sign of the given value [x]\n * - \`\text{1.0}\` if the value is positive,\n * - \`\text{-1.0}\` if the value is negative,\n * - \`\text{0.0}\` if the value is zero,\n * - \`\text{1.0}\` if the value is positive,\n * Special case:\n * - \`\text{sign}(\text{NaN})\` is \text{NaN}\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{ceil}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{floor}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the closest integer with ties rounded towards even integer.\n * \@return the smallest double value that is greater than or equal to the given value [x].\n * Special cases:\n * - \`\text{abs}(\text{NaN})\` is \text{NaN}\n * \@see \text{abs} extension property for \text{Double}\n * \@return the sign of the given value [x]\n * - \`\text{1.0}\` if the value is positive,\n * - \`\text{-1.0}\` if the value is negative,\n * - \`\text{0.0}\` if the value is zero,\n * - \`\text{1.0}\` if the value is positive,\n * Special case:\n * - \`\text{sign}(\text{NaN})\` is \text{NaN}\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{ceil}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n * Special cases:\n * - \`\text{floor}(x)\` is \`x\` where \`x\` is \text{NaN} or \text{+Inf} or \text{-Inf} or already a mathematical integer.\n * \@return the closest integer with ties rounded towards even integer.\n * \@return the smallest double value that is greater than or equal to the given value [x].\n * Special cases:\n * - \`\text{abs}(\text{NaN})\` is \text{NaN}\n * \@see \text{abs} extension property for \text{Double}\n * \@return the sign of the given value [x]\n * - \`\text{1.0}\` if the value is positive,\n * - \`\text{-1.0}\` if the value is negative,\n * - \`\text{0.0}\` if the value is zero,\n * - \`\text{1.0}\` if the value is positive,\n * Special case:\n * - \`\text{sign}(\text{NaN})\` is \text{NaN}\n

`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`

Rounds this [Double] value to the nearest integer and converts the result to [Long].

@throws IllegalArgumentException when this value is `NaN`

@SinceKotlin("1.2")
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.
 */
@SinceKotlin("1.2")
public expect fun Double.roundToLong(): Long

// endregion

// region ================ Float Math

/** Computes the sine of the angle [x] given in radians.
 * Special cases:
 * * - `sin(0.0)` is `0.0`
 * * - `sin(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun sin(x: Float): Float

/** Computes the cosine of the angle [x] given in radians.
 * Special cases:
 * * - `cos(0.0)` is `1.0`
 * * - `cos(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun cos(x: Float): Float

/** Computes the tangent of the angle [x] given in radians.
 * Special cases:
 * * - `tan(0.0)` is `0.0`
 * * - `tan(NaN)` is `NaN`
 */
@SinceKotlin("1.2")
public expect fun tan(x: Float): Float

/** Computes the arc sine of the value [x];
 * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
 * Special cases:
 * * - `asin(1.0)` is `PI/2`
 * * - `asin(-1.0)` is `-PI/2`
 * * - `asin(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun asin(x: Float): Float

/** Computes the arc cosine of the value [x];
 * the returned value is an angle in the range from `0.0` to `PI` radians.
 * Special cases:
 * * - `acos(1.0)` is `0.0`
 * * - `acos(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun acos(x: Float): Float

/** Computes the arc tangent of the value [x];
 * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.
 * Special cases:
 * * - `atan(1.0)` is `PI/4`
 * * - `atan(-1.0)` is `-PI/4`
 * * - `atan(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun atan(x: Float): Float

/** Computes the inverse hyperbolic sine of the value [x];
 * the returned value is `y` such that `sinh(y) == x`.
 * Special cases:
 * * - `asinh(0.0)` is `0.0`
 * * - `asinh(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun asinh(x: Float): Float

/** Computes the inverse hyperbolic cosine of the value [x];
 * the returned value is `y` such that `cosh(y) == x`.
 * Special cases:
 * * - `acosh(0.0)` is `0.0`
 * * - `acosh(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun acosh(x: Float): Float

/** Computes the inverse hyperbolic tangent of the value [x];
 * the returned value is `y` such that `tanh(y) == x`.
 * Special cases:
 * * - `tanh(0.0)` is `0.0`
 * * - `tanh(x)` is undefined for |x| > 1
 */
@SinceKotlin("1.2")
public expect fun atanh(x: Float): Float

/** Computes Euler's number `e` raised to
 * the power of `x`.
 */
@SinceKotlin("1.2")
public expect fun exp(x: Float): Float

/** Computes the natural logarithm of `x`.
 * Special cases:
 * * - `log(1.0)` is `0.0`
 * * - `log(x)` is undefined for `x <= 0`
 */
@SinceKotlin("1.2")
public expect fun log(x: Float): Float

/** Computes the base-10 logarithm of `x`.
 * Special cases:
 * * - `log10(1.0)` is `0.0`
 * * - `log10(x)` is undefined for `x <= 0`
 */
@SinceKotlin("1.2")
public expect fun log10(x: Float): Float

/** Computes the base-2 logarithm of `x`.
 * Special cases:
 * * - `log2(1.0)` is `0.0`
 * * - `log2(x)` is undefined for `x <= 0`
 */
@SinceKotlin("1.2")
public expect fun log2(x: Float): Float

/** Computes the square root of `x`.
 * Special cases:
 * * - `sqrt(0.0)` is `0.0`
 * * - `sqrt(x)` is undefined for `x < 0`
 */
@SinceKotlin("1.2")
public expect fun sqrt(x: Float): Float

// endregion
the power of the value \([x]\):\n\*\n\* Special cases:\n\* - `\exp(NaN)` is `NaN`\n\* - `\exp(\pm\infty)` is `\pm\infty`\n\* - `\exp(-\infty)` is 0.0\n\* @SinceKotlin("1.2")\n\}public expect fun exp(x: Float): Float\n\*\n\* Computes `\exp(x)` \(-1.0\) \*\n\* This function can be implemented to produce more precise result for \([x]\) near zero.\n\* Special cases:\n\* - `\exp1(NaN)` is `NaN`\n\* - `\exp1(\pm\infty)` is `\pm\infty`\n\* - `\exp1(-\infty)` is `-1.0`\n\* @see \[exp\] function.\n\* @SinceKotlin("1.2")\n\}public expect fun exp1(x: Float): Float\n\*\n\* Computes the logarithm of the value \([x]\) to the given \([base]\).\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\* - \(\log(+\infty, +\infty)\) is `NaN`\n\* - \(\log(+/0.0, b)\) 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\* @see also logarithm functions for common fixed bases: \([\ln]\), \([\log10]\) and \([\log2]\)\n\*\n\* @SinceKotlin("1.2")\n\}public expect fun log(x: Float, base: Float): Float\n\*\n\* Computes the natural logarithm (base `E`) of the value \([x]\).\n\* Special cases:\n\* - `\ln(NaN)` is `NaN`\n\* - `\ln(x)` is `NaN` when `x < 0.0`\n\* - `\ln(\pm\infty)` is `\pm\infty`\n\* @see \[ln\] function.\n\* @SinceKotlin("1.2")\n\}public expect fun ln(x: Float): Float\n\*\n\* Computes the common logarithm (base 10) of the value \([x]\).\n\* @return the smallest Float value that is greater than or equal to the given value \([x]\) and is a mathematical integer.\n\* Special cases:\n\* - `\ceiling(x)` is `x` where `x` is `NaN` or `+\infty` or `-\infty` or already a mathematical integer.\n\* @SinceKotlin("1.2")\n\}public expect fun ceil(x: Float): Float\n\*\n\* Rounds the given value \([x]\) to an integer towards positive infinity.\n\* @return the largest Float value that is smaller than or equal to the given value \([x]\) and is a mathematical integer.\n\* Special cases:\n\* - `floor(x)` is `x` where `x` is `NaN` or `+\infty` or `-\infty` or already a mathematical integer.\n\* @SinceKotlin("1.2")\n\}public expect fun floor(x: Float): Float\n\*\n\* Rounds the given value \([x]\) to an integer towards negative infinity.\n\* @return the largest Float value that is smaller than or equal to the given value \([x]\) and is a mathematical integer.\n\* Special cases:\n\* - `trunc(x)` is `x` where `x` is `NaN` or `+\infty` or `-\infty` or already a mathematical integer.\n\* @SinceKotlin("1.2")\n\}public expect fun trunc(x: Float): Float\n\*\n\* Rounds the given value \([x]\) to the closest integer with ties rounded towards even integer.\n\* @return the value \([x]\) having its fractional part truncated.\n\* Special cases:\n\* - `round(x)` is `x` where `x` is `NaN` or `+\infty` or `-\infty` or already a mathematical integer.\n\* @SinceKotlin("1.2")\n\}public expect fun round(x: Float): Float\n\*\n\* Computes `\round(x)` which is `x` where `x` is `NaN` or `+\infty` or `-\infty` or already a mathematical integer.\n\* @SinceKotlin("1.2")\n\}public expect fun abs(x: Float): Float\n\*\n\* Returns the absolute value of the given value \([x]\).\n\* Special cases:\n\* - `\abs(NaN)` is `NaN`\n\* \* @see absoluteValue extension property for \([Float]\).\n\* @SinceKotlin("1.2")\n\}public expect fun abs(x: Float): Float\n\*\n\* Returns the sign of the given value \([x]\):\n\* - 1.0 if the value is positive,\n\* - 0 if the value is zero,\n\* - 1.0 if the value is negative,\n\* Special cases:\n\* - `\sign(NaN)` is `NaN`\n\* \* \* @SinceKotlin("1.2")\n\}public expect fun sign(x: Float): Float\n\*\n\* Returns the smaller of two values.\n\* @return the smallest of two values.\n\* \* @SinceKotlin("1.2")\n\}public expect fun min(a: Float, b: Float): Float\n\*\n\* Returns the greater of two values.\n\* \* @SinceKotlin("1.2")\n\}public expect fun max(a: Float, b: Float): Float\n\*\n\* Raises this value to the power \([x]\).\n\* \* \* @SinceKotlin("1.2")\n\}public expect fun pow(x: Float): Float\n\*\n\* Raises this value to the power integer \([n]\).\n\* \* \* \* See the other overload of \([pow]\) for details.\n\* @SinceKotlin("1.2")\n\}public expect fun pow(n: Int): Float\n\*\n\* Returns the absolute value of this value.\n\* \* Special cases:\n\* - `\NaN.absoluteValue` is `NaN`\n\* \* \* @see abs function.\n\* @SinceKotlin("1.2")\n\}public expect fun abs(x: Float): Float\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\* Special
case

```
* - `NaN.sign` is `NaN`
 */
@SinceKotlin("1.2")
public 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")
public expect fun Float.withSign(sign: Float): Float

/**
 * Returns this value with the sign bit same as of the [sign] value.
 */
@SinceKotlin("1.2")
public 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.
 */
public expect fun Float.roundToInt(): Int

/**
 * Rounds this [Float] value to the nearest integer and converts the result to [Long].
 */
public expect fun Float.roundToLong(): Long

// endregion

// region


/**
 * Returns the absolute value of the given value [n].
 */
@SinceKotlin("1.2")
public expect fun abs(n: Int): Int

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min(a: Int, b: Int): Int

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max(a: Int, b: Int): Int

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
public 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")
public expect val Int.sign: Int

/**
 * Returns the absolute value of the given value [n].
 */
public expect fun abs(n: Long): Long

/**
 * Returns the smaller of two values.
 */
@SinceKotlin("1.2")
public expect fun min(a: Long, b: Long): Long

/**
 * Returns the greater of two values.
 */
@SinceKotlin("1.2")
public expect fun max(a: Long, b: Long): Long

/**
 * Returns the absolute value of this value.
 */
@SinceKotlin("1.2")
public 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")
public expect val Long.sign: Int


// endregion

endregion

```


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    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

- The -me macro set, using the BSD license.

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
--------------------

- The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at


  It has been renamed for consistency, i.e., to make patterns available
  under the filenames `hyphen.<language>', e.g. `hyphen.de' or
  `hyphen.uk'.

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- The file `tmac/hyphen.fr' contains the same patterns as the file
  `frhyph.tex' (for TeX), which can be found at


  The patterns have been converted to a format groff can understand.

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- The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
  can be found at


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- The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
  patterns as the files `dehypht-x-2017-03-31.pat' and
  `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
  at

  http://ctan.org/tex-archive/language/hyphenation/dehyp-exptl
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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

    http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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AUTHOR
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Peter Schaffter (peter@schaffter.ca)
3-355 Lafontaine Ave
Vanier (ON) CANADA
K1L 6X6

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1.368 guava 31.0.1-jre

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  ect/Hashing.java
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  jar/com/google/common/coll
  ect/ForwardingSortedMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/coll
  ect/GeneralRange.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedSetMultimap.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1.jar/com/google/common/annotations/GwtIncompatible.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/CompactHashing.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/collection/ImmutableSortedAsList.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/base/internal/Finalizer.java
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* /
/**
* Holder for web specializations of methods of {code Floats}. Intended to be empty for regular
* version.
* /

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* jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* jar/com/google/common/base/NullnessCasts.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
* jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
* jar/com/google/common/util/concurrent/NullnessCasts.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/LongAdder.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/TopKSelector.java
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  jar/com/google/common/collection/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/JdkBackedImmutableSet.java
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  jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/collection/JdkBackedImmutableSet.java

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/*
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available under GWT but with a slightly different signature.
 */
<p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.
*/

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/ParametricNullness.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/net/ParametricNullness.java
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jar/com/google/common/collection/MapDifference.java
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jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/Maps.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ForwardingQueue.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/CompoundOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/Synchronized.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/AbstractMapEntry.java
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*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java
*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableMap.java
*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

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*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/BaseGraph.java
*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java
*/opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounnder.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Java8Compatibility.java

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*/
/**
 * Holder for web specializations of methods of [ @code Ints]. Intended to be empty for regular
 * version.
 */

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/primitives/IntsMethodsForWeb.java
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  jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
  jar/com/google/common/base/CommonMatcher.java
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 */

/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/CollectSpliterators.java

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* *
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap class.
*/

Found in path(s):
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Striped.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/Platform.java

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 */

/** *
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@param c the collection for which to return an array of elements

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*/
This method was rewritten in Java from an intermediate step of the Murmur hash function in
http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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*/

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableListMultimap.java
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1.369 aws-java-sdk-frauddetector 1.12.186

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.371 aws-java-sdk-athena 1.12.186

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 * CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
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 * and limitations under the License.
 */
/**
 * <p>
 * Specifies the Lambda function or functions to use for the data catalog. This is a mapping whose values depend
 on
 * the catalog type.
 * </p>
 * <ul>
 * <li>
 * <p>
 * For the <code>HIVE</code> data catalog type, use the following syntax. The <code>metadata-function</code>
 parameter is required. <code>The sdk-version</code> parameter is optional and defaults to the currently
 supported
 * version.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>metadata-function=<i>lambda_arn</i>, sdk-version=<i>version_number</i> </code>
 * </p>
 * </li>
 * <li>
 * <p>
 * For the <code>LAMBDA</code> data catalog type, use one of the following sets of required parameters, but
 not
 */
* If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

* `<p>`
* `<ul>`
* `<li>`
* `<p>`
* `<code>metadata-function=<i>lambda_arn</i>, record-function=<i>lambda_arn</i> </code>`
* `<p>`
* `<p>`
* `<p>`
* `<li>`
* `<p>`
* `<code>function=<i>lambda_arn</i> </code>`
* `<p>`
* `<p>`
* `<ul>`
* `<li>`
* `<p>`
* `<p>`
* `<p>`

* The `<code>GLUE</code>` type takes a catalog ID parameter and is required. The `<code><i>catalog_id</i> </code>` is the account ID of the Amazon Web Services account to which the Glue catalog belongs.

* `<p>`
* `<p>`
* `<code>catalog-id=<i>catalog_id</i> </code>`
* `<p>`
* `<p>`
* `<ul>`
* `<li>`
* `<p>`
* `<p>`

* The `<code>GLUE</code>` data catalog type also applies to the default `<code>AwsDataCatalog</code>` that already exists in your account, of which you can have only one and cannot modify.

* `<p>`
* `<p>`
* `<p>`
* `<p>`

* Queries that specify a Glue Data Catalog other than the default `<code>AwsDataCatalog</code>` must be run on Athena engine version 2.
<p>Specifies the Lambda function or functions to use for creating the data catalog. This is a mapping whose values depend on the catalog type.</p>

For the <code>HIVE</code> data catalog type, use the following syntax. The <code>metadata-function</code> parameter is required. The <code>sdk-version</code> parameter is optional and defaults to the currently supported version.

For the <code>LAMBDA</code> data catalog type, use one of the following sets of required parameters, but not both.

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*/

/* <p>
  * Specifies the Lambda function or functions to use for creating the data catalog. This is a mapping whose values
  * depend on the catalog type.
  */
*/
<p>
  * For the <code>HIVE</code> data catalog type, use the following syntax. The <code>metadata-function</code> parameter is required. The <code>sdk-version</code> parameter is optional and defaults to the currently supported version.
</p>
</ul>
<p>
  * <i>lambda_arn</i>, <i>version_number</i> </p>

<p>
  * For the <code>LAMBDA</code> data catalog type, use one of the following sets of required parameters, but not both.
</p>
* If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

* **metadata-function=**<i>lambda_arn</i>, **record-function=**<i>lambda_arn</i>

* If you have a composite Lambda function that processes both metadata and data, use the following syntax to specify your Lambda function.

* **function=**<i>lambda_arn</i>

* The **GLUE** type takes a catalog ID parameter and is required. The **<i>catalog_id</i>** is the account ID of the Amazon Web Services account to which the Glue Data Catalog belongs.

* The **GLUE** data catalog type also applies to the default **<i>AwsDataCatalog</i>** that already exists in your account, of which you can have only one and cannot modify.

* Queries that specify a Glue Data Catalog other than the default **<code>AwsDataCatalog</code>** must be run on Athena engine version 2.

* In Regions where Athena engine version 2 is not available, creating new Glue data catalogs results in an **<code>INVALID_INPUT</code>** error.
Found in path(s):
* /opt/cola/permits/1301977042_1649310450.04/0/aws-java-sdk-athena-1-12-186-sources-1-
  jar/com/amazonaws/services/athena/model/CreateDataCatalogRequest.java
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 */
* both.

If you have one Lambda function that processes metadata and another for reading the actual data, use the following syntax. Both parameters are required.

```
metadata-function=<i>lambda_arn</i>, record-function=<i>lambda_arn</i>
```

If you have a composite Lambda function that processes both metadata and data, use the following syntax to specify your Lambda function.

```
function=<i>lambda_arn</i>
```

Found in path(s):

* /opt/cola/permits/1301977042_1649310450.04/0/aws-java-sdk-athena-1-12-186-sources-1-jar/com/amazonaws/services/athena/model/UpdateDataCatalogRequest.java

### 1.372 okhttp 4.4.1

#### 1.372.1 Available under license:

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### 1.373 hk2-utils 2.6.1

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david@megginson.com
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1.384 sqlite 3.36.0-r0

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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 **<dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]]<dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 **<dd>There are no arguments to this option. *This option sets the
 **[threading mode] to Single-thread. In other words, it disables
 ** all muting and puts SQLite into a mode where it can only be used
 ** by a single thread. *If SQLite is compiled with
**the [SQLITE_THREADSAFEE | SQLITE_THREADSAFEE=0] compile-time option then**
**it is not possible to change the [threading mode] from its default**
**value of Single-thread and so [sqlite3_config()] will return**
**[SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD**
**configuration option.</dd>

**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the**
**[threading mode] to Multi-thread. In other words, it disables**
**muting on [database connection] and [prepared statement] objects.**
**The application is responsible for serializing access to**
**[database connections] and [prepared statements]. But other mutexes**
**are enabled so that SQLite will be safe to use in a multi-threaded**
**environment as long as no two threads attempt to use the same**
**[database connection] at the same time. ^If SQLite is compiled with**
**the [SQLITE_THREADSAFEE | SQLITE_THREADSAFEE=0] compile-time option then**
**it is not possible to set the Multi-thread [threading mode] and**
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the**
**SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the**
**[threading mode] to Serialized. In other words, this option enables**
**all mutexes including the recursive**
**mutexes on [database connection] and [prepared statement] objects.**
**In this mode (which is the default when SQLite is compiled with**
**[SQLITE_THREADSAFEE=1]) the SQLite library will itself serialize access**
**to [database connections] and [prepared statements] so that the**
**application is free to use the same [database connection] or the**
**same [prepared statement] in different threads at the same time.**
**^If SQLite is compiled with**
**the [SQLITE_THREADSAFEE | SQLITE_THREADSAFEE=0] compile-time option then**
**it is not possible to set the Serialized [threading mode] and**
**[sqlite3_config()] will return [SQLITE_ERROR] if called with the**
**SQLITE_CONFIG_SERIALIZED configuration option.</dd>

**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd>^(The SQLITE_CONFIG_MALLOC option takes a single argument which is**
**a pointer to an instance of the [sqlite3_mem_methods] structure.**
**The argument specifies**
**alternative low-level memory allocation routines to be used in place of**
**the memory allocation routines built into SQLite.)^ ^SQLite makes**
**its own private copy of the content of the [sqlite3_mem_methods] structure**
**before the [sqlite3_config()] call returns.</dd>

**
** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
** <dd>^(The SQLITE_CONFIG_GET_MALLOC option takes a single argument which**
**is a pointer to an instance of the [sqlite3_mem_methods] structure.**
** The [sqlite3_mem_methods] structure is filled with the currently defined memory allocation routines.)^  
** This option can be used to overload the default memory allocation routines with a wrapper that simulates memory allocation failure or tracks memory usage, for example. </dd>  
**  
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>  
** <dd>^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of type int, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible. SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off. </dd>  
**  
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>  
** <dd>^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^(When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:  
** <ul>  
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status64()]
** </ul>)^  
** ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default. </dd>  
**  
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>  
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.  
** </dd>  
**  
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>  
** <dd>^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation. ^This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]. ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N). The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()]) sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>

** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8. </dd>

** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place of the mutex routines built into SQLite.) ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will ** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which ** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The ** [sqlite3_mutex_methods] ** structure is filled with the currently defined mutex routines.)^ ** This option can be used to overload the default mutex allocation ** routines with a wrapper used to track mutex usage for performance ** profiling or testing, for example. ^If SQLite is compiled with ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then ** the entire muting subsystem is omitted from the build and hence calls to ** [sqlite3_config()]] with the SQLITE_CONFIG_GETMUTEX configuration option will ** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine ** the default size of lookaside memory on each [database connection]. ** The first argument is the ** size of each lookaside buffer slot and the second is the number of ** slots allocated to each database connection.)^ (SQLITE_CONFIG_LOOKASIDE ** sets the i<default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE] ** option to [sqlite3_db_config()] can be used to change the lookaside ** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is ** a pointer to an [sqlite3_pcache_methods2] object. This object specifies ** the interface to a custom page cache implementation.)^ ** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which ** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of ** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite ** global [error log]. ** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a ** function with a call signature of void(*)(void*,int,const char*), ** and a pointer to void. ^If the function pointer is not NULL, it is ** invoked by [sqlite3_log()]] to process each logging event. ^If the ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op. ** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is ** passed through as the first parameter to the application-defined logger ** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG(SqlLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[[SQLITE_CONFIG_MMAP_SIZE]]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^*
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** *
** [[[SQLITE_CONFIG_WIN32_HEAPSIZE]]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
** *
** [[[SQLITE_CONFIG_PCACHE_HDRSZ]]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
** *
** [[[SQLITE_CONFIG_PMASZ]]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [[SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [[SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [[SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]]. If this
** configuration setting is never used, then the default maximum is determined
** by the [[SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** */

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>This option sets the [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>This option sets the [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>This option sets the [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt><dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt><dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt><dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt><dd> ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** ^(When memory allocation statistics are
** <ul>
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

The SQLITE_CONFIG_SCRATCH option is no longer used.

The SQLITE_CONFIG_PAGECACHE option specifies a memory pool that SQLite can use for the database page cache with the default page cache implementation.

This configuration option is a no-op if an application-defined page cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].

There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to 8-byte aligned memory (pMem), the size of each page cache line (sz), and the number of cache lines (N). The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. The number of extra bytes needed by the page header can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].

It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz*N bytes, otherwise subsequent behavior is undefined.

When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to [sqlite3_malloc()] if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted.

If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from [sqlite3_malloc()] sufficient for N cache lines if N is positive or of -1024*N bytes if N is negative. If additional page cache memory is needed beyond what is provided by the initial allocation, then SQLite goes to [sqlite3_malloc()] separately for each additional cache line.

The SQLITE_CONFIG_HEAP option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by [SQLITE_CONFIG_PAGECACHE].

The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns...
** [SQLITE_ERROR] if invoked otherwise.
** There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^ This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ SQLite_CONFIG_LOOKASIDE
** sets the indefault</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^</dd>
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt> ** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is ** a pointer to an [sqlite3_pcache_methods2] object. This object specifies ** the interface to a custom page cache implementation.)^ ** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd> **

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt> ** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which ** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of ** the current page cache implementation into that object.)^ </dd> **

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt> ** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite ** global [error log]. ** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a ** function with a call signature of void(*)(void*,int,const char*), ** and a pointer to void. ^If the function pointer is not NULL, it is ** invoked by [sqlite3_log()] to process each logging event. ^If the ** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op. ** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is ** passed through as the first parameter to the application-defined logger ** function whenever that function is invoked. ^The second parameter to ** the logger function is a copy of the first parameter to the corresponding ** [sqlite3_log()] call and is intended to be a [result code] or an ** [extended result code]. ^The third parameter passed to the logger is ** log message after formatting via [sqlite3_snprintf()]. ** The SQLite logging interface is not reentrant; the logger function ** supplied by the application must not invoke any SQLite interface. ** In a multi-threaded application, the application-defined logger ** function must be threadsafe. </dd> **

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI** <dd> ^(The SQLITE_CONFIG_URI option takes a single argument of type int. ** If non-zero, then URI handling is globally enabled. If the parameter is zero, ** then URI handling is globally disabled.)^ ^If URI handling is globally ** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], ** [sqlite3_open16()] or ** specified as part of [ATTACH] commands are interpreted as URIs, regardless ** of whether or not the [SQLITE_OPEN_URI] flag is set when the database ** connection is opened. ^If it is globally disabled, filenames are ** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the ** database connection is opened. ^By default, URI handling is globally ** disabled. The default value may be changed by compiling with the ** [SQLITE_USE_URI] symbol defined.)^ **

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN** <dd> ^(The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
argument which is interpreted as a boolean in order to enable or disable
the use of covering indices for full table scans in the query optimizer.

^The default setting is determined
by the [SQLITE_ALLOWCOVERING_INDEX_SCAN] compile-time option, or is "on"
if that compile-time option is omitted.
The ability to disable the use of covering indices for full table scans
is because some incorrectly coded legacy applications might malfunction
when the optimization is enabled. Providing the ability to
disable the optimization allows the older, buggy application code to work
without change even with newer versions of SQLite.

[[SQLITE_CONFIG_PCACHE]]
[[SQLITE_CONFIG_GETPCACHE]]
<dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
<dd> These options are obsolete and should not be used by new code.
They are retained for backwards compatibility but are now no-ops.
</dd>

[[SQLITE_CONFIG_SQLLOG]]
<dt>SQLITE_CONFIG_SQLLOG
<dd> This option is only available if sqlite is compiled with the
[SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
The second should be of type (void*). The callback is invoked by the library
in three separate circumstances, identified by the value passed as the
fourth parameter. If the fourth parameter is 0, then the database connection
passed as the second argument has just been opened. The third argument
points to a buffer containing the name of the main database file. If the
fourth parameter is 1, then the SQL statement that the third parameter
points to has just been executed. Or, if the fourth parameter is 2, then
the connection being passed as the second parameter is being closed. The
third parameter is passed NULL In this case. An example of using this
configuration option can be seen in the "test_sqllog.c" source file in
the canonical SQLite source tree.</dd>

[[SQLITE_CONFIG_MMAP_SIZE]]
<dt>SQLITE_CONFIG_MMAP_SIZE
<dd> SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
that are the default mmap size limit (the default setting for
[PRAGMA mmap_size]) and the maximum allowed mmap size limit.
^The default setting can be overridden by each database connection using
either the [PRAGMA mmap_size] command, or by using the
[SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
will be silently truncated if necessary so that it does not exceed the
compile-time maximum mmap size set by the
[SQLITE_MAX_MMAP_SIZE] compile-time option.)
^If either argument to this option is negative, then that argument is
changed to its compile-time default.
** [SQLITE_CONFIG_WIN32_HEAPSIZE]
** <dt>SILTE_CONFIG_WIN32_HEAPSIZE
**<dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [SQLITE_CONFIG_PCACHE_HDRSZ]
** <dt>SILTE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [SQLITE_CONFIG_PMASZ]
** <dt>SILTE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [SQLITE_CONFIG_STMTJRNL_SPILL]
** <dt>SILTE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [SQLITE_CONFIG_SORTERREF_SIZE]
** <dt>SILTE_CONFIG_SORTERREF_SIZE
** <dd>^The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
than the configured sorter-reference size threshold - then a reference is stored in each sorted record and the required column values loaded from the database as records are returned in sorted order. The default value for this option is to never use this optimization. Specifying a negative value for this option restores the default behaviour.

This option is only available if SQLite is compiled with the [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.

The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter [sqlite3_int64] parameter which is the default maximum size for an in-memory database created using [sqlite3_deserialize()]. This default maximum size can be adjusted up or down for individual databases using the [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this configuration setting is never used, then the default maximum is determined by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that compile-time option is not set, then the default maximum is 1073741824.

The "printf" code that follows dates from the 1980's. It is in the public domain.

This file contains code for a set of "printf"-like routines. These routines format strings much like the printf() from the standard C library, though the implementation here has enhancements to support SQLite.

2004 May 22

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May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This file contains the VFS implementation for unix-like operating systems include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.

There are actually several different VFS implementations in this file. The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
**   * SQLite3_file methods not associated with locking.
**   * Definitions of sqlite3_io_methods objects for all locking
**     methods plus "finder" functions for each locking method.
**   * sqlite3 vfs method implementations.
**   * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   * Definitions of sqlite3 vfs objects for all locking methods
**     plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c

No license file was found, but licenses were detected in source scan.

/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c
1.385 python 3.9.7-r4

1.385.1 Available under license:

A. HISTORY OF THE SOFTWARE

========================================

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 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.

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 */
/**
 * <p>
The actions that an external principal is granted permission to use by the policy that generated the finding.
 * </p>
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/**
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The actions that an external principal is granted permission to use by the policy that generated the finding.
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@return The actions that an external principal is granted permission to use by the policy that generated the finding.
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 * The actions that an external principal is granted permission to use by the policy that generated the finding.
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@param actions
 * The actions that an external principal is granted permission to use by the policy that generated the finding.
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*/
/**
 * The action in the analyzed policy statement that an external principal has permission to use.
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The original software and related information is available at
https://www.eclipse.org/jdt/core/.

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
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The original XML Schemas for Java EE Deployment Descriptors:
- javae_5.xsd
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- javae_web_services_client_1_2.xsd
- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_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
- javae_7.xsd
- javae_web_services_1_4.xsd
- javae_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
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* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

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wagon-http-lightweight (3.0.0)

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jar/javax/servlet/jsp/resources/jspxml.dtd
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-
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jar/javax/servlet/jsp/tagext/JspIdConsumer.java
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* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/el/ELParseException.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/HttpJspPage.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/JspEngineInfo.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/TagData.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/SimpleTag.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/TagSupport.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/PageData.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/JspTag.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/Tag.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/SimpleTagSupport.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/PageContext.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/tagext/IterationTag.java
* /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java
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  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/ValidationMessage.java
  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/TagAdapter.java
  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/TagVariableInfo.java
  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/ErrorData.java
  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/ScopedAttributeELResolver.java
  * /opt/cola/permits/1301977728_1649310251.68/0/tomcat-jsp-api-8-5-75-sources-jar/java/servlet/jsp/tagext/BodyTagSupport.java
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1.417 aws-java-sdk-lookoutforvision 1.12.186

1.417.1 Available under license:

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1.418 aws-java-sdk-s3 1.12.186
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1.419 util-linux 2.37.4-r0
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1   32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
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dateutil - Extensions to the standard Python datetime module.

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1.444 cachecontrol 0.12.10

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..
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CacheControl

Quickstart

.. code-block:: python

    import requests
    from cachecontrol import CacheControl

    sess = requests.session()
    cached_sess = CacheControl(sess)
    response = cached_sess.get('http://google.com')

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
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1.450 pyasn1 0.4.8

1.450.1 Available under license:

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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
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
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
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Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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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/)
[![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-)](https://raw.githubusercontent.com/etingof/pyasn1/1.1.1/LICENSE.rst)
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).

**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.
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.

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:
```
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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# License: http://snmplabs.com/pyasn1/license.html

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1) <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 if 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>`_ 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
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/pyasn1/contents

Use case
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/example-use-case

Download & Install
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.. toctree::
   :maxdepth: 2

/download

Changes
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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::
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/changelog

License
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Getting help


Books on ASN.1

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

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


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


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

1.451 cxf-rt-ws-addr 3.5.0

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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:
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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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
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All Python releases are Open Source (see [http://www.opensource.org](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.

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* /opt/cola/permits/1301978854_1649310263.15/0/aws-java-sdk-codeartifact-1-12-186-sources-1-
1.468 aws-java-sdk-timestreamwrite 1.12.186
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.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:

```java
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 if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See DataServerInitializer#initChannel().
    public class DataServerInitializer extends ChannelInitializer<Channel> {
        @Override
        public void initChannel(Channel channel) {
            channel.pipeline().addLast("handler", new DataServerHandler());
        }
    }

    // Using AttributeKeys
```
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}`:

```java
public interface Message {
    // your methods here
}

@code @Sharable
public class DataServerHandler extends {@link SimpleChannelInboundHandler}@Message&;&
private final {@link AttributeKey}&;&{@link Boolean}&;&auth =
    {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

@code @Override
public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
    @link Attribute&;&attr = ctx.attr(auth);
    if (message instanceof LoginMessage) {
        authenticate((LoginMessage) o);
        &b&gt;attr.set(true)&lt;/b&gt;;
    } else (message instanceof GetDataMessage) {
        if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {
            ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
        } else {
            fail();
        }
    }
}

@code @Override
public void initChannel(@link Channel) channel) {
    channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
}
```

Now that the state of the handler is attached to the `{@link ChannelHandlerContext}`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends {@link ChannelInitializer}@{@link Channel}&;&
private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();

@code @Override
public void initChannel(@link Channel) channel) {
    channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
}
```

The `{@code @Sharable}` annotation

```
In the example above which used an \{@link AttributeKey\},
you might have noticed the \{@code @Sharable\} annotation.

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.

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.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

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.

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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/pool/package-info.java
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- jsp_2_2.xsd
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- web-common_3_0.xsd
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*/
/**
 * <p>
 * Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible Elasticsearch
 * version.
 * </p>
 *
 * @param upgradeElasticsearchDomainRequest
 * Container for request parameters to <code>UpgradeElasticsearchDomain</code> operation.
 * @return A Java Future containing the result of the UpgradeElasticsearchDomain operation returned by the service.
 * @sample AWSElasticsearchAsync.UpgradeElasticsearchDomain
 */

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* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/transform/SnapshotOptionsStatusJsonUnmarshaller.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/transform/UpdateElasticsearchDomainConfigResultJsonUnmarshaller.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/VPCDerivedInfo.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/transform/DeleteOutboundCrossClusterSearchConnectionRequestMarshaller.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/DescribePackagesResult.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/ResourceNotFoundExceptionUnmarshaller.java
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* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1.jar/com/amazonaws/services/elasticsearch/model/DescribeOutboundCrossClusterSearchConnectionsResult.java
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* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/model/AdditionalLimit.java
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* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/model/AccessPoliciesStatusMarshaller.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/model/AutoTune.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/model/UpgradeHistory.java
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 */

/**
 * <p>Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible Elasticsearch
 * version.</p>
 */

@param upgradeElasticsearchDomainRequest
 * Container for request parameters to UpgradeElasticsearchDomain operation.

@return Result of the UpgradeElasticsearchDomain operation returned by the service.

@throws BaseException
 * An error occurred while processing the request.

@throws ResourceNotFoundException
 * An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.

@throws ResourceAlreadyExistsException
 * An exception for creating a resource that already exists. Gives http status code of 400.

@throws DisabledOperationException
 * An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.

@throws ValidationException
 * An exception for missing / invalid input fields. Gives http status code of 400.

@throws InternalException
The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.

The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.

* @sample AWSElasticsearch.UpgradeElasticsearchDomain
*/

Found in path(s):
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/AWSElasticsearchClient.java
* /opt/cola/permits/1301977751_1649309833.83/0/aws-java-sdk-elasticsearch-1-12-186-sources-1-jar/com/amazonaws/services/elasticsearch/AWSElasticsearch.java

1.502 aws-java-sdk-savingsplans 1.12.186
1.502.1 Available under license:
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1.503 picocli 4.6.1
1.503.1 Available under license:
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*/

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* /opt/cola/permits/1177083937_1625028998.96/0/picocli-4-6-1-sources-jar/picocli/AutoComplete.java
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/**
 * Called when either the command, option or positional parameter that has this preprocessor configured was
 * recognized by the picocli parser.
 * <p>Implementors are free to modify one or more of the specified command line arguments before they are
 * processed by the picocli parser (or by the option's [@link IParameterConsumer parameter consumer], if one
 * is specified).
 * </p><p>
 * Implementors may optionally <em>consume</em> one or more of the specified command line arguments:
 * a return value of [@code true] signals that the preprocessor consumed the parameter:
 * picocli should skip further processing of this option or positional parameter,
 * and the preprocessor implementation takes responsibility for assigning the
 * option or positional parameter a value. A return value of [@code false] means that picocli should
 * process the stack as usual for this option or positional parameter, and picocli is responsible for
 * assigning this option or positional parameter a value.
 * </p>
 * For a command, returning [@code true] signals that the preprocessor takes responsibility for parsing all
 * options and positional parameters for this command, and takes responsibility for validating constraints like
 * whether all required options and positional parameters were specified.
 * A return value of [@code false] means that picocli should
 * process the stack as usual for this command, and picocli is responsible for validation.
 * Command preprocessors can signal back to the picocli parser when they detect that the user requested version
 * information or usage help by putting a value of [@code true] in the specified
 * [@code info] map for keys [@code versionHelpRequested] or [@code usageHelpRequested], respectively.
 * </p>
 * If the user input is invalid, implementations should throw a [@link ParameterException]
 * with a message to display to the user.
 * </p>
 * @param args the remaining command line arguments that follow the matched argument
 * (the matched argument is not on the stack anymore)
 * @param commandSpec the command or subcommand that was matched (if the specified [@code argSpec] is
 * [@code null]), or the command that the matched option or positional parameter belongs to
 * @param argSpec the option or positional parameter for which to pre-process command line arguments
 * (may be [@code null] when this method is called for a subcommand that was matched)
 * @param info a map containing additional information on the current parser state,
 * including whether the option parameter was attached to the option name with
 * a `=` separator, whether quotes have already been stripped off the option, etc.
 * Implementations may modify this map to communicate back to the picocli parser.
 * Supported values:
<table>
<thead>
<tr>
<th>key</th>
<th>valid values</th>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>separator</td>
<td>&quot; (empty string): attached without separator, ' ' (space): not attached, (any other string): option name was attached to option param with specified separator</td>
<td>java.lang.String</td>
</tr>
<tr>
<td>negated</td>
<td>@code true]: the option or positional parameter is a negated option/parameter, @code false]: the option or positional parameter is not a negated option/parameter</td>
<td>java.lang.Boolean</td>
</tr>
<tr>
<td>unquoted</td>
<td>@code true]: quotes surrounding the value have already been stripped off, @code false]: quotes surrounding the value have not yet been stripped off</td>
<td>java.lang.Boolean</td>
</tr>
<tr>
<td>versionHelpRequested</td>
<td>@code true]: version help was requested, @code false]: version help was not requested</td>
<td>java.lang.Boolean</td>
</tr>
<tr>
<td>usageHelpRequested</td>
<td>@code true]: usage help was requested, @code false]: usage help was not requested</td>
<td>java.lang.Boolean</td>
</tr>
</tbody>
</table>

@returns true if the preprocessor consumed the parameter and picocli should skip further processing of the stack for this option or positional parameter; false if picocli should continue processing the stack for this option or positional parameter

@throws ParameterException if the user input is invalid

*/
1.504.1 Available under license:

Thanks!

* https://github.com/andy-maier
* https://github.com/SethMichaelLarson
* https://github.com/asottile
* https://github.com/MartijnBraam
* https://github.com/funkyfuture
* https://github.com/adamjstewart
* https://github.com/xavfernandez
* https://github.com/xsuchy
* https://github.com/marcoceppi
* https://github.com/tgamblin
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1.505 cxf-rt-ws-policy 3.5.0

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* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/ConfigRuleMarshaller.java
jar/com/amazonaws/services/config/model/GetAggregateResourceConfigRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DeleteAggregationAuthorizationRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/DeleteDeliveryChannelRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/DescribeRetentionConfigurationsRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/OrganizationManagedRuleMetadataMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/StartRemediationExecutionRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/EvaluationMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ConfigurationRecorderStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/PutAggregationAuthorizationResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/NoSuchDeliveryChannelExceptionUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/FailedRemediationExceptionBatch.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/GetAggregateConfigRuleComplianceSummaryRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/StopConfigurationRecorderRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/OrganizationConfigRuleJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ComplianceByConfigRule.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/PutAggregationAuthorizationRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/NoSuchBucketException.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/OrganizationRuleStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
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* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ListStoredQueriesRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DeletePendingAggregationRequestRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/CustomPolicyDetailsJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/DeleteConfigurationRecorderRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/RemediationExecutionStep.java
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* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/RelationshipJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/AggregateConformancePackComplianceCount.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/StopConfigurationRecorderResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/MaxNumberOfConfigRulesExceededExceptionUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/StaticValueJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/DeleteOrganizationConformancePackRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/DeleteOrganizationConfigRuleRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DeleteOrganizationConformancePackRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DeleteOrganizationConfigRuleRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DescribeConfigRuleEvaluationStatusRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/StoredQueryJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/RemediationExceptionResourceKeyMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DeleteConfigRuleRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DeleteOrganizationConfigRuleRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/ListDiscoveredResourcesResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/GetConformancePackComplianceSummaryRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/GetOrganizationConfigRuleDetailedStatusResultJsonUnmarshaller.java
The document contains a list of files related to the AWS Java SDK Config 1.12-186 sources. The files are located in the directory `/opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar`, and include:

- `DescribeComplianceByResourceResult.java`
- `PutConformancePackRequest.java`
- `AggregationAuthorization.java`
- `PutRemediationConfigurationsRequestProtocolMarshaller.java`
- `OrganizationConfigRuleTriggerTypeNoSN.java`
- `ComplianceByResource.java`
- `GetComplianceDetailsByConfigRuleRequestProtocolMarshaller.java`
- `DeleteConfigurationRecorderResultJsonUnmarshaller.java`
- `FieldInfoJsonUnmarshaller.java`
- `PutConfigurationAggregatorResultJsonUnmarshaller.java`
- `AggregateConformancePackComplianceSummaryGroupKey.java`
- `InvalidSNSTopicARNException.java`
- `GetCustomRulePolicyResult.java`
- `DescribeAggregationAuthorizationsResult.java`
- `DescribeOrganizationConformancePacksRequestMarshaller.java`
- `GetAggregateConformancePackComplianceSummaryRequestUnmarshaller.java`
- `DeliveryChannelJsonUnmarshaller.java`
- `DeleteOrganizationConfigRuleResultJsonUnmarshaller.java`
- `StaticValueMarshaller.java`
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* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/StartRemediationExecutionResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/FieldInfoMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/OrganizationCustomRuleMetadataMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/OrganizationResourceStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/MaxNumberOfOrganizationConfigRulesExceededException.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/EvaluationResultQualifier.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/Source.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/PutRetentionConfigurationRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/PutResourceConfigRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/OrganizationConformancePackJsonUnmarshallersh.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/SelectResourceConfigRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/SourceDetailMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/DeliverConfigSnapshotResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/RetentionConfigurationJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/OrganizationConfigRuleMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DescribePendingAggregationRequestsResultUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/ListTagsForResourceRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/ListTagsForResourceResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/StartConfigurationRecorderRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/GetResourceConfigHistoryRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/GetResourceConfigHistoryResultUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/transform/DescribeConfigRulesRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1.jar/com/amazonaws/services/config/model/MemberAccountStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DescribeConformancePacksResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/BatchGetAggregateResourceConfigRequestProtocolMarshalle
r.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ResourceCount.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DeleteStoredQueryRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/RemediationConfigurationMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/PutDeliveryChannelResultJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ResourceValueType.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DescribeRemediationExecutionStatusRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/PendingAggregationRequestJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ConfigRuleEvaluationStatusRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ConfigurationAggregatorMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/GetComplianceSummaryByResourceTypeResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/AggregatedSourceStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/MaxNumberOfRetentionConfigurationsExceededException.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ConfigRuleEvaluationStatusJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/PutRemediationConfigurationsResultJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/AccountAggregationSourceJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ListDiscoveredResourcesRequestProtocolMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ConfigurationAggregator.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/RetentionConfigurationMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/OrganizationResourceDetailedStatus.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/StatusDetailFilters.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ListAggregateDiscoveredResourcesRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/EvaluationResultMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/ConfigSnapshotDeliveryPropertiesJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DescribeDeliveryChannelStatusResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DeleteConfigurationRecorderResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DescribeOrganizationConfigRuleStatusesRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/DescribeOrganizationConformancePacksResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ValidationException.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/PutResourceConfigResult.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/GetStoredQueryRequest.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/GetOrganizationCustomRulePolicyRequestMarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/OrganizationAccessDeniedException.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/ComplianceSummaryJsonUnmarshaller.java
* /opt/cola/permits/1301977781_1649310521.06/0/aws-java-sdk-config-1-12-186-sources-1-
jar/com/amazonaws/services/config/model/transform/GetDiscoveredResourceCountsRequestProtocolMarshaller.jav
...
1.514 aws-java-sdk-storagegateway 1.12.186
1.514.1 Available under license:
Apache-2.0

1.515 tomcat-jasper-el 8.5.75
1.515.1 Available under license:
Apache License
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A. HISTORY OF THE SOFTWARE
==========================

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.cni.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.
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Distutils2 Contributors

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
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/**
 * <p>
 * If this parameter is specified and the requested engine supports the <code>TimeZone</code> parameter for
 * <code>CreateDBInstance</code>, the response includes a list of supported time zones for each engine version.
 * </p>
 */

/**
 * @param listSupportedTimezones
 * If this parameter is specified and the requested engine supports the <code>TimeZone</code> parameter for
 * <code>CreateDBInstance</code>, the response includes a list of supported time zones for each engine
 * version.
 */

/**
 * @return If this parameter is specified and the requested engine supports the <code>TimeZone</code>
 * parameter for
 * <code>CreateDBInstance</code>, the response includes a list of supported time zones for each engine
 * version.
 */

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1.520 aws-java-sdk-apigatewaymanagementapi 1.12.186
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* /opt/cola/permits/1135880235_1613624044.2/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/GroupConversionDescriptor.java
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1.524 httpcomponents-client 4.5.13

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A. HISTORY OF THE SOFTWARE

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.cnr.i.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.

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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 $

1.531 hibernate-validator 6.2.0.Final
1.531.1 Available under license:
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/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
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 */
/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
*/
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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/*
 * Hibernate Validator, declare and validate application constraints
 *
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Found in path(s):
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/MapKeyExtractor.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/time/DurationMaxValidator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/xml/mapping/ConstrainedFieldStaxBuilder.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForBigInteger.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/scripting/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/validationcontext/ValidationContext.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/fg/context/ReturnValueTarget.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/DefaultClockProvider.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfShort.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/SetPropertyValueExtractor.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/fg/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/parameternameprovider/ParanamerParameterNameProvider.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/Token.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArray.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveValidatorForMonetaryAmount.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/xml/mapping/ConstrainedGetterStaxBuilder.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/constraints/Mod10Check.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/el/BeanPropertiesElContext.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/constraints/Mod10Check.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForMinguoDate.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/cfg/defs/LengthDef.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/fg/constraints/Mod10Check.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForLong.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
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jar/org/hibernate/validation/author/validate/external/context/GroupConversionTargetContextImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validation/author/validate/external/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForReadablePartial.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
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jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/conf/defs/br/CPFDef.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/annotation/AnnotationFactory.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraint validators/bv/time/FutureValidatorForOffsetTime.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/conf/defs/br/CNPJDef.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/constraints/Normalized.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/cli/classhierarchy/ClassHierarchyHelper.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintTree.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForLong.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/cfg/context/DefaultConstraintMapping.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/ExecutableMetaData.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineGroupConversionForCascadeReturnValues.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/valuecontext/ValueContexts.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/commutil/annotation/ConstraintAnnotationDescriptor.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/validator/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/property/javadoc/JavaBeanAnnotatedElement.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/property/javadoc/JavaBeanAnnotatedElement.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/cfg/context/AbstractPropertyConstraintMappingContextImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/ElementDescriptorImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForReadablejava
jar/org/hibernate/validator/internal/metadata/descriptor/ExecutableDescriptorImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/constraints/CreditCardNumber.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForCharSequence.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorFactoryImpl.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/DecimalMaxValidatorForNumber
jar
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForFloat.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/hv/ParameterScriptAssertValidator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForCollection.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/metadata/core/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/cfg/defs/pl/PESELDef.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/UniqueElementsValidator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/package-info.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/validatorcontext/ValidatorScopedContext.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/NegativeOrZeroValidatorForShort.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/spi/scripting/ScriptEvaluatorNotFoundException.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForYear.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForLong.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/MapPropertyValueExtractor.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForMinguoDate.java
jar/org/hibernate/validator/internal/engine/ConstraintCreationContext.java
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jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForBigInteger.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/cfg/context/AnnotationProcessingOptions.java
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jar/org/hibernate/validator/internal/metadata/location/ParameterConstraintLocation.java
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jar/org/hibernate/validator/internal/xml/AbstractStaxBuilder.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/xml/config/ResourceLoaderHelper.java
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jar/org/hibernate/validator/internal/engine/MessageInterpolatorContext.java
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* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/AbstractScriptAssertValidator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/engine/messageinterpolation/el/RootResolver.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForFloat.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/constraintvalidators/URLValidator.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForOffsetDateTime.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/engine/constraintvalidation/SimpleConstraintTree.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/engine/valueextraction/ByteArrayValueExtractor.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/util/TypeVariableBindings.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MinValidatorForInteger.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/validator/constraints/URL.java
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-
jar/org/hibernate/validator/validator/views/BeanMetaDataImpl.java
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 * Hibernate Validator, declare and validate application constraints
 *
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 */

/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * 
 * Script expressions can be written in any scripting or expression language,
 * for which a `<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>`
 * ("Scripting for the Java™ Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [@link javax.validation.ParameterNameProvider]. The default provider will
 * return the actual parameter names, if the -parameters compiler option
 * has been enabled, and [@code arg0], [@code arg1] etc. otherwise.
 * 
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * 
 * ```java
 * @code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
 * public void createEvent(Date start, Date end) { ... }
 * ```
 * 
 * Can be specified on any method or constructor.
 * 
 * @author Gunnar Morling
 */

Found in path(s):
* /opt/cola/permits/1179350176_1626075468.15/0/hibernate-validator-6-2-0-final-sources-jar/org/hibernate/validation/internal/validator/ParameterScriptAssert.java
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1.532 tomcat-catalina 8.5.75

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  jar/com/lmax/disruptor/AggregateEventHandler.java
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  jar/com/lmax/disruptor/EventFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/SequenceReportingEventHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
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  jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/NoOpEventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/BatchEventProcessor.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/WorkerPool.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/util/DaemonThreadFactory.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/SingleProducerSequencer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/AbstractSequencer.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/BlockingWaitStrategy.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-
  jar/com/lmax/disruptor/ProcessingSequenceBarrier.java
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Found in path(s):
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequence.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/InsufficientCapacityException.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ProducerType.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroups.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/DataProvider.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FixedSequenceGroup.java
* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java

1.534 pip 22.0.4

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- Wichert Akkerman, 2012/02/02

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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.

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c-a-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:
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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@(#) SRC$file: certdata.txt,v $SR$evision: 1.80 $S$Date: 2011/11/03 15:11:58
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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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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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jar/com/amazonaws/services/codestarnotifications/model/transform/InvalidNextTokenExceptionUnmarshaller.java

* /opt/cola/permits/1301976813_1649309868.37/0/aws-java-sdk-codestarnotifications-1-12-186-sources-1-
jar/com/amazonaws/services/codestarnotifications/model/transform/TargetSummaryJsonUnmarshaller.java

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jar/com/amazonaws/services/codestarnotifications/model/TagResourceResult.java

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jar/com/amazonaws/services/codestarnotifications/model/DetailType.java

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jar/com/amazonaws/services/codestarnotifications/model/EventSummaryMarshaller.java

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jar/com/amazonaws/services/codestarnotifications/model/CreateNotificationRuleRequest.java

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jar/com/amazonaws/services/codestarnotifications/model/AccessDeniedException.java

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jar/com/amazonaws/services/codestarnotifications/model/EventSummary.java

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/XmlFrameDecoder.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
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  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
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  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/protobuf/Varint32LengthFieldPrepender.java

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* A decoder that splits the received ByteBufs 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.

* ![LengthFieldBasedFrameDecoder](https://example.com/image) 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.

* ![ch3>2 bytes length field at offset 0, do not strip header](https://example.com/image)

* The value of the length field in this example is 12 (0x0C) 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> lengthFieldOffset = 0 lengthFieldLength = 2 lengthAdjustment = 0 initialBytesToStrip = 0 (= do not strip header)](https://example.com/image)

* **BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)**

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* ![pre>](https://example.com/image)

* **BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)**

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* Because we can get the length of the content by calling ![ByteBuf#readableBytes()](https://example.com/image), you might want to strip the length field by specifying initialBytesToStrip. In this example, we specified 2, that is same with the length of the length field, to strip the first two bytes.

* ![pre> lengthFieldOffset = 0 lengthFieldLength = 2 lengthAdjustment = 0 initialBytesToStrip = 2 (= the length of the Length field)](https://example.com/image)

* **BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)**

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
* | 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 lengthAdjustment. Because the length value in this example message is always greater than the body length by lengthAdjustment, we specify 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. lengthAdjustment 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" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* <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.

```
* 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" |
  +----------+----------+----------------+
```

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.

```
* 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" |
  +--------------------------+         +--------------------------+
```

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 lengthAdjustment.
* 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
*/

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/**
* 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
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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  jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/protobuf/MessageToByteEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ContextBoundUnmarshallerProvider.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ContextBoundEncoder.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ContextBoundEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ContextBoundDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources.jar/io/netty/handler/codec/compression/ReplayingDecoderByteBuf.java
jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/Delimiters.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/package-info.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/TooLongFrameException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
ar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
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     jar/com/amazonaws/services/directory/model/RemoveIpRoutesRequest.java
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   * /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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   * /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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   * /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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jar/com/amazonaws/services/directory/model/transform/DescribeSharedDirectoriesResultJsonUnmarshaller.java
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jar/com/amazonaws/services/directory/model/transform/CreateTrustRequestProtocolMarshaller.java
* /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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* /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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* /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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* /opt/cola/permits/1301978654_1649309974.85/0/aws-java-sdk-directory-1-12-186-sources-1-
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 * @param access access flags of the adapted method.
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/**
 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see { @link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/MethodRemapper.java
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* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/ClassRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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/**
 * /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2.jar/org/objectweb/asm/commons/SignatureRemapper.java

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/**
* Constructs a new {@link SerialVersionUIDAdder}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
* version.
*
* @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
* @throws IllegalStateException If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1135892456_1613626901.7/0/asm-commons-7-1-sources-2-
  jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
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* Project: https://maven.apache.org/shared/file-management/
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* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source: https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

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maven-resolver-transport-file (1.1.1)

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* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source: https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

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* Source: https://github.com/codehaus-plexus/plexus-archiver

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* /opt/cola/permits/1301978515_1649309740.27/0/aws-java-sdk-datapipeline-1-12-186-sources-1-
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jar/com/amazonaws/services/datapipeline/model/transform/ActivatePipelineRequestProtocolMarshaller.java
* /opt/cola/permits/1301978515_1649309740.27/0/aws-java-sdk-datapipeline-1-12-186-sources-1-
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- web-app_3_0.xsd
- web-common_3_0.xsd
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/http/IonErrorCodeParser.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws(internal/http/DelegateSocket.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/log/InternalLog.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/SignableRequest.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/log/JulLogFactory.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/transform/JsonErrorUnmarshaller.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/SdkIOUtils.java

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  jar/com/amazonaws/auth/RegionAwareSigner.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
  jar/com/amazonaws/internal/SdkDigestInputStream.java
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  jar/com/amazonaws/util/EncodingScheme.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/SdkFilterOutputStream.java
jar/com/amazonaws/util/NamedDefaultThreadFactory.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
  jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
  jar/com/amazonaws/util/ReflectionMethodInvoker.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/auth/WebIdentityTokenCredentialsProvider.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/endpointdiscovery/DefaultEndpointDiscoveryProviderChain.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/waiters/WaiterHandler.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/AmazonWebServiceClient.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/waiters/HttpSuccessStatusAcceptor.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/transform/SimpleTypeStaxUnmarshallers.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/monitoring/EnvironmentVariableCsmConfigurationProvider.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/transform/JsonUnmarshallerContextImpl.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/transform/JsonUnmarshallerContextImpl.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/monitoring/ProfileCsmConfigurationProvider.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/ContainerCredentialsFetcher.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/TokenBucket.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/InstanceMetadataServiceCredentialsFetcher.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/util/InternalLogFactory.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
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  jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
  jar/com/amazonaws/util/MetadataCache.java
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  jar/com/amazonaws/regions/MetadataSupportedRegionFromEndpointProvider.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/DefaultMarshallingType.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/client/builder/AwsSyncClientBuilder.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/json/JsonOperationMetadata.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/http/timers/client/SdkInterruptedException.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/auth/presign/PresignerFacade.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/auth/profile/internal/BasicProfile.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/http/response/AwsResponseHandlerAdapter.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/json/JsonClientMetadata.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/json/JsonContent.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/transform/AbstractErrorUnmarshaller.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/transform/PathMarshellers.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/client/AwsSyncClientParams.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/ProtocolMarshaller.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/client/builder/AwsClientBuilder.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/regions/DefaultAwsRegionProviderChain.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/request/protocol/RequestHandler.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/retry/v2/RetryPolicy.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/retry/v2/RetryPolicyContext.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/retry/v2/MaxNumberOfRetriesCondition.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1.jar/com/amazonaws/protocol/json/SdkJsonGenerator.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/ReleasableInputStream.java
* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/internal/ResettableInputStream.java

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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-
jar/com/amazonaws/retry/ClockSkewAdjuster.java
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  jar/com/amazonaws/log/InternalLogApi.java
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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/http/apache/utils/ApacheUtils.java

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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/http/conn/ssl/TLSProtocol.java

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* /opt/cola/permits/1301978070_1649310236.71/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/SignatureVersion.java
1.573 aws-java-sdk-cognitosync 1.12.186

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* /opt/cola/permits/1301978327_1649309801.05/0/aws-java-sdk-cognitosync-1-12-186-sources-1-jar/com/amazonaws/services/cognitosync/model/transform/BulkPublishRequestProtocolMarshaller.java
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* /opt/cola/permits/1301978327_1649309801.05/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java
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* /opt/cola/permits/1301978327_1649309801.05/0/aws-java-sdk-core-1-12-186-sources-1-jar/com/amazonaws/auth/AWSCredentials.java
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Located inside the following files:

- jar/com/amazonaws/services/cognitosync/model/transform/GetCognitoEventsRequestMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/protocol/GetCognitoEventsRequestProtocolMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/PushSync.java
- jar/com/amazonaws/services/cognitosync/model/LambdaThrottledException.java
- jar/com/amazonaws/services/cognitosync/model/transform/DescribeIdentityPoolUsageRequestMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/GetIdentityPoolConfigurationResultJsonUnmarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/SetIdentityPoolConfigurationRequestMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/protocol/ListIdentityPoolUsageRequestProtocolMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/ListRecordsRequestProtocolMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/IdentityUsageMarshaller.java
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- jar/com/amazonaws/services/cognitosync/model/transform/RegisterDeviceRequestMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/RegisterDeviceRequest.java
- jar/com/amazonaws/services/cognitosync/model/transform/InvalidConfigurationExceptionUnmarshaller.java
- jar/com/amazonaws/services/cognitosync/model/transform/DeleteDatasetRequestProtocolMarshaller.java
- jar/com/amazonaws/services/cognitosync/model/BulkPublishStatus.java
- jar/com/amazonaws/services/cognitosync/model/IdentityUsageJsonUnmarshaller.java
- jar/com/amazonaws/services/cognitosync/model/BulkPublishStatus.java
- jar/com/amazonaws/services/cognitosync/model/IdentityPoolUsageJsonUnmarshaller.java
- jar/com/amazonaws/services/cognitosync/model/BulkPublishStatus.java
- jar/com/amazonaws/services/cognitosync/model/SubscribeToDatasetRequest.java
- jar/com/amazonaws/services/cognitosync/model/BulkPublishStatus.java
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1.582 aws-java-sdk-clouddirectory 1.12.186

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Lists schema major versions applied to a directory. If `<code>SchemaArn</code>` is provided, lists the minor version.

@throws InternalServiceException
   Indicates a problem that must be resolved by Amazon Web Services. This might be a transient error in which case you can retry your request until it succeeds. Otherwise, go to the <a href="http://status.aws.amazon.com/">AWS Service Health Dashboard</a> site to see if there are any operational issues with the service.

@throws InvalidArnException
   Indicates that the provided ARN value is not valid.

@throws RetryableConflictException
   Occurs when a conflict with a previous successful write is detected. For example, if a write operation occurs on an object and then an attempt is made to read the object using "SERIALIZABLE" consistency, this exception may result. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

@throws ValidationException
   Indicates that your request is malformed in some manner. See the exception message.

@throws LimitExceededException
   Indicates that limits are exceeded. See <a href="https://docs.aws.amazon.com/clouddirectory/latest/developerguide/limits.html">Limits</a> for more information.

@throws AccessDeniedException
   Access denied or directory not found. Either you don't have permissions for this directory or the directory does not exist. Try calling <a href="/ListDirectories">ListDirectories</a> and check your permissions.

@throws ResourceNotFoundException
   The specified resource could not be found.

@throws InvalidNextTokenException
   Indicates that the `<code>NextToken</code>` value is not valid.

Found in path(s):
* /opt/cola/permits/1301978495_1649310256.42/0/aws-java-sdk-clouddirectory-1-12-186-sources-1-jar/com/amazonaws/services/clouddirectory/AmazonCloudDirectory.java
* /opt/cola/permits/1301978495_1649310256.42/0/aws-java-sdk-clouddirectory-1-12-186-sources-1-jar/com/amazonaws/services/clouddirectory/AmazonCloudDirectoryClient.java
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*/

/**
 * <p>
 * Lists schema major versions applied to a directory. If <code>SchemaArn</code> is provided, lists the minor
 * version.
 * </p>
 * @param listAppliedSchemaArnsRequest
 * @return A Java Future containing the result of the ListAppliedSchemaArns operation returned by the service.
 * @sample AmazonCloudDirectoryAsync.ListAppliedSchemaArns
 * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/clouddirectory-2017-01-11/ListAppliedSchemaArns" target="_top">AWS API Documentation</a>
 */

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* /opt/cola/permits/1301978495_1649310256.42/0/aws-java-sdk-clouddirectory-1-12-186-sources-1-jar/com/amazonaws/services/clouddirectory/AmazonCloudDirectoryAsync.java
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* /opt/cola/permits/1301978495_1649310256.42/0/aws-java-sdk-clouddirectory-1-12-186-sources-1-
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jar/com/amazonaws/services/clouddirectory/model/FacetAttributeUpdateJsonUnmarshaller.java
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## Source Code

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* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserByteArray.java

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- web-common_3_0.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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1.638 aws-java-sdk-cloudwatchrum 1.12.186
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1.639 netty-codec-http 4.1.72.Final

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1.653 aws-java-sdk-batch 1.12.186

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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ComputeEnvironmentDetailMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/ArrayPropertiesSummary.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/TmpfsMarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/DescribeJobQueuesRequest.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/CancelJobRequestProtocolMarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/SubmitJobRequestProtocolMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ArrayPropertiesSummaryJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/JobDetail.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/EvaluateOnExit.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/DescribeJobQueuesRequestMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/SubmitJobResultJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/JobSummaryMarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/LogConfigurationJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ArrayPropertiesMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/NetworkInterfaceMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ShareAttributes.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ComputeEnvironmentOrderMarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/CreateComputeEnvironmentRequestProtocolMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/DescribeSchedulingPoliciesResultJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ResourceRequirementMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/AttemptDetailMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/KeyValuesPairMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/UnTagResourceRequest.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/ComputeEnvironmentOrder.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/NodeProperties.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/NetworkInterfaceJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/ServerException.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/TerminateJobRequest.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/NodeOverridesMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/AttemptContainerDetail.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/SchedulingPolicyDetailJsonUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/JobDefinitionMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/Secret.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/NodePropertiesMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/ContainerPropertiesJsonUnmarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/ListTagsForResourceRequestProtocolMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/transform/UpdateSchedulingPolicyRequestProtocolMarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/JobQueueDetail.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/FairsharePolicy.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/DescribeJobsRequest.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/TerminateJobResult.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/DescribeJobDefinitionsResultUnmarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/AWSBatch.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/SchedulingPolicyListingDetailUnmarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/SchedulingPolicyDetailMarshaller.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/RetryAction.java
* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/NodePropertyOverrideUnmarshaller.java
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1.jar/com/amazonaws/services/batch/model/RegisterJobDefinitionResult

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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1-
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1-
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1-
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* /opt/cola/permits/1301978359_1649310028.66/0/aws-java-sdk-batch-1-12-186-sources-1-
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1.654 ca-certificates 20211220-r0

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* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/mk-ca-bundle.pl
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/mk-ca-bundle.pl
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#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# # CKA_CLASS     CK_OBJECT_CLASS    CKO_CERTIFICATE
# # CKA_TOKEN     CK_BBOOL           CK_TRUE
# # CKA_PRIVATE   CK_BBOOL           CK_FALSE
# # CKA_MODIFIABLE CK_BBOOL           CK_FALSE
# # CKA_LABEL     UTF8               (varies)
# # CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509
# # CKA_SUBJECT   DER+base64         (varies)
# # CKA_ID       byte array          (varies)
# # CKA_ISSUER   DER+base64         (varies)
# # CKA_SERIAL_NUMBER DER+base64     (varies)
# # CKA_VALUE    DER+base64         (varies)
# # CKA_NSS_EMAIL ASCII7             (unused here)
# # CKA_NSS_SERVER_DISTRUST_AFTER DER+base64     (varies)
# # CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64     (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# # CKA_CLASS    CK_OBJECT_CLASS    CKO_TRUST
# # CKA_TOKEN    CK_BBOOL           CK_TRUE
# # CKA_PRIVATE  CK_BBOOL           CK_FALSE
# # CKA_MODIFIABLE CK_BBOOL           CK_FALSE
# # CKA_LABEL    UTF8               (varies)
# # CKA_ISSUER   DER+base64         (varies)
# # CKA_SERIALNUMBER DER+base64     (varies)
# # CKA_CERT_HASH binary+base64     (varies)
# # CKA_EXPIRES  CK_DATE            (not used here)
# # CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST     (varies)
# # CKA_TRUST_NON_REPUDIATION CK_TRUST     (varies)
# # CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST     (varies)
# CKA_TRUST_DATA_ENCIIPHERMENT CK_TRUST (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST (varies)
# CKA_TRUST_KEY_CERT_SIGN CK_TRUST (varies)
# CKA_TRUST_CRL_SIGN CK_TRUST (varies)
# CKA_TRUST_SERVER_AUTH CK_TRUST (varies)
# CKA_TRUST_CLIENT_AUTH CK_TRUST (varies)
# CKA_TRUST_CODE_SIGNING CK_TRUST (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST (varies)
# CKA_TRUST_IPSEC_TUNNEL CK_TRUST (varies)
# CKA_TRUST_IPSEC_USER CK_TRUST (varies)
# CKA_TRUST_TIME_STAMPING CK_TRUST (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL (varies)
# (other trust attributes can be defined)
#

# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"

#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"

# Certificate_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# SUBJECT MULTILINE_OCTAL
\060\127\060\127\060\060\060\110\066\060\131\125\004\006\023\002\102\105\061
\031\060\027\060\003\125\004\012\023\020\010\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\103\33\060\031
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CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122 \244\035\202\234

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\03\106\002\70\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\003
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\25\113\132\303\224
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc." ,C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc." ,C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKC_X_509

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\127\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\060\033\125
\004\103\023\016\126\145\162\151\123\151\147\156\040\012\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\015\040\060\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\055\040\0106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\013\060\003\125\004\030\123
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

#
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign, Inc. - For authorized use only;OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU=(c) 1999 VeriSign, Inc. - For authorized use only;OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\312\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\072\060\006\003
\125\004\013\023\061\050\143\012\006\017\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\312\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\072\060\006\003
\125\004\013\023\061\050\143\012\006\017\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END
\043\075\037\231\376\114\350\026\143\216\360\010\216\366\061\366
\322\372\345\160\335\265\034\222\243\111\315\315\001\315\150\151
\251\151\272\243\353\353\035\151\234\244\040\246\301\240\305\321\106
\114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\173\110
\112\270\076\211\002\030\010\000\010\060\015\006\011\110\052\206\110
\206\367\015\001\010\005\005\000\003\202\001\001\000\064\046\025
\074\300\215\115\103\111\035\275\351\041\222\327\146\234\267\336
\305\270\320\344\135\137\166\042\300\046\371\204\072\072\371\114
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\133\323\304\010\163\334\162\204\007\256
\356\005\074\244\240\063\077\013\071\254\160\170\163\113\231\105\337
\060\032\124\260\250\073\125\241\376\026\050\315\102\275\164\156
\200\333\047\104\247\376\116\014\135\324\033\220\230\015\036\102\224
\261\100\050\004\032\201\264\243\002\005\042\214\143\143\315\203\265\373
\301\115\142\153\151\165\375\135\160\101\127\136\027\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\177\373\066\045\332\225\320\363\044\042\027\335\030\200\153
\106\043\071\124\365\216\142\011\004\035\224\220\246\233\346\045
\342\102\105\252\270\220\255\276\010\217\251\013\102\030\224\317
\162\071\134\126\110\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\213\063\135\254\063\327\247\371\133\207\125
\311\130\020\371\252\357\132\266\017\113\113\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\135\103\327\177\312\324\141\121\274\230\1340\303\131\022\257
# Certificate "Entrust.net Premium 2048 Secure Server CA"

# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048), OU=(c) 1999 Entrust.net Limited, OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.), O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048), OU=(c) 1999 Entrust.net Limited, OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.), O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After: Tue Jul 24 14:15:12 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175\145\055\064\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\232\346\350\265\367\121\264\064\161\220
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\240\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\165\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\170\040\162\145\146\056\040\050\154\151
\155\151\164\163\140\154\151\141\142\056\051\061\045\064\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\006\163\060\061\000\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\143\336\370
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Baltimore CyberTrust Root"

# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After: Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\001\006\003\012\050\004\006\023\002\011\011\010\061
\022\060\020\000\003\012\050\004\012\023\011\012\014\013\015\014\015\015
\157\162\145\061\023\060\021\006\003\012\050\004\013\023\012\013\017
\142\145\162\124\162\165\163\164\161\024\060\040\006\003\012\050\004
\003\023\031\010\014\015\014\015\015\155\157\162\145\040\010\013\017\142
\145\162\124\162\165\163\164\040\022\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\001\006\003\012\050\004\006\023\002\011\011\010\061
\022\060\020\000\003\012\050\004\012\023\011\012\014\013\015\014\015\015
\157\162\145\061\023\060\021\006\003\012\050\004\013\023\012\013\017
\142\145\162\124\162\165\163\164\161\024\060\040\006\003\012\050\004
\003\023\031\010\014\015\014\015\015\155\157\162\145\040\010\013\017\142
\145\162\124\162\165\163\164\040\022\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\000\271
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\03\167\060\020\202\002\137\240\000\03\002\001\002\002\004\002
\000\000\0271\060\015\006\011\052\206\110\206\367\015\000\010\005
\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\011
\105\061\022\060\020\006\003\125\004\012\023\011\012\014\013\015\014\016
\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012\013\017
\103\171\142\145\162\124\162\165\163\164\061\042\060\040\006\003
\125\004\003\023\031\102\141\154\161\151\155\157\162\145\040\0103
# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\201\035\031\303\044\102\352\143\071\251
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\312\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164 END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\133\060\011\006\003\125\004\006\023\002\111\105\061\022\060\020\006\003\125\004\012\023\011\110\121\154\164\151\155\157\162\145\061\012\060\021\006\003\125\004\013\023\012\103\171\142\145\162\124\162\165\163\164\016\042\060\040\000\003\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\000\271 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\011\156\143\056\061\010\160\006\003\125\004
\013\023\060\0167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\164\010\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\1037\060\003\125\004\013\023\026\050\143
\051\040\062\096\060\060\060\040\015\156\164\162\165\163\164\054\040
\111\156\143\056\061\105\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\010\160\006\003\125\004
\013\023\060\0167\167\167\056\145\156\164\162\165\165\163\164\056\156
\145\164\057\103\120\123\040\151\163\164\010\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\061\1037\060\003\125\004\013\023\026\050\143
\051\040\062\096\060\060\060\040\015\156\164\162\165\163\164\054\040
\111\156\143\056\061\105\060\053\006\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124

END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\060\022\003\171\1240\003\002\001\002\002\002\004\105
\153\120\124\060\15\006\11\052\206\110\206\367\015\001\001\005
\005\000\006\201\260\061\013\060\011\006\003\125\004\006\023\002
\220\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373
\204\275\155\060\035\006\003\125\035\016\004\026\004\024\150\220
\344\147\244\246\123\200\307\206\146\244\361\367\113\103\373\204
\275\155\060\035\006\011\052\206\113\200\66\175\007\101\000\004
\200\060\016\303\011\126\067\056\061\072\064\056\060\003\002\200
\220\060\015\006\011\052\206\113\200\66\175\007\101\000\004
\003\202\001\001\000\223\324\060\260\327\003\040\052\320\371\143
\350\221\014\005\040\251\113\207\031\132\0173\162\116\324\261\133\320
\226\373\124\132\031\050\014\010\267\224\205\205\250\235\177\155
\073\122\263\052\333\347\224\204\214\143\366\017\313\046\001\122
\120\154\364\137\024\342\223\164\300\203\236\060\072\120\303\326
\140\030\034\360\042\104\215\161\111\072\254\310\032\311\351\233\322
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\225\257\153\232\330\236\351\361\344\103\215\342
\021\104\072\277\257\275\203\102\163\122\213\252\273\247\051\137
\365\144\034\012\115\321\274\252\254\137\052\320\377\177\177\332
\175\352\261\135\060\045\301\204\332\064\322\133\170\023\126\354
\234\060\303\040\342\021\366\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\112\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\157\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.".,C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.".,C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\243\154\204\002\332\334\067\324\115\365\324 \147\111\112\371
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "Certum Root CA"

# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Certum Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END


\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\315\314\077\271\310\044\102\024\326\127\374\346\046\103\251
\035\345\202\022\031\160\003\114\050\076\367\077\323\370\115\355\152
\012\072\223\023\33\073\024\043\023\143\324\077\321\207\047\171
\345\114\121\343\001\255\205\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\037\016\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\323\022\225\013\147\030\333\327\160\035\233\261\151
\355\200\316\111\100\110\152\016\065\312\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\260\054\163
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10002)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\060\202\214\251
END
CKA_ISSUER_MULTILINE_OCTAL
\060\076\010\13\060\011\060\003\125\004\006\023\002\120\014\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Comodo AAA Services root"
#
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\0173\061\013\060\011\006\003\125\004\006\002\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\013\157\155\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\0037\006\003
\125\004\003\140\030\101\101\010\040\031\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\0173\061\013\060\011\006\003\125\004\006\002\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\145\141\164\145
\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060\016
\006\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\030\006\003\125\004\012\014\021\013\157\155\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\0037\006\003
\125\004\003\140\030\101\101\010\040\031\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\062\060\022\003\032\240\003\002\001\002\002\001\001
\060\015\006\011\052\026\110\026\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\060\030\006\003\125\004\012\014\021\013\157\155\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\0037\006\003
\125\004\003\140\030\101\101\010\040\031\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\062\060\022\003\032\240\003\002\001\002\002\001\001
\060\015\006\011\052\026\110\026\367\015\001\001\005\005\000\060
\173\061\013\060\011\006\003\125\004\006\023\002\107\102\061
\060\030\006\003\125\004\012\014\021\013\157\155\144\157\040
\103\101\040\114\151\155\151\164\145\144\061\041\060\0037\006\003
\125\004\003\140\030\101\101\010\040\031\145\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\140\027\144\330\343\111

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320

END

CKA_CERT_MULTILINE_OCTAL
\060\173\061\103\060\011\100\003\125\004\006\023\002\107\102\061\030\060\031\006\003\125\004\010\142\022\107\162\145\141\164\145\162\061\020\060\016\100\003\125\004\007\014\007\123\141\154\146\157\162\144\061\032\060\030\006\003\125\004\012\014\021\103\157\155\157\144\157\040\103\110\040\114\151\155\164\145\144\061\041\060\037\006\003\125\004\003\104\030\101\101\101\040\103\145\162\164\151\146\151\143\141\164\145\040\123\145\162\166\151\143\145\163

Open Source Used In UCM Cloud Analyzer Service 1.0 4513
# Certificate "QuoVadis Root CA 2"

# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

CKA_VALUE MULTILINE_OCTAL
\060\202\005\267\060\020\003\237\240\003\002\000\002\002\005
\011\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\105\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In UCM Cloud Analyzer Service 1.0 4516
# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\133\023\165\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\010\011\030\001\006\003\012\004\006\023\002\102\115\061
\031\060\027\006\003\012\004\012\023\020\012\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication Root CA"
#
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\037\111\024\367\133\023\165\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
# KCA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# KCA_TOKEN CK_BBOOL CK_TRUE
# KCA_PRIVATE CK_BBOOL CK_FALSE
# KCA_MODIFIABLE CK_BBOOL CK_FALSE
# KCA_LABEL UTF8 "Security Communication Root CA"
# KCA_CERT_SHA1_HASH MULTILINE_OCTAL
# KCA_CERT_MD5_HASH MULTILINE_OCTAL
# KCA_ISSUER MULTILINE_OCTAL
# KCA_ISSUER_MULTILINE_OCTAL

END
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\060\020\070\067\061\043\060\041\106\003\125\004
\013\023\032\150\164\166\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\060\020\070\067\061\043\060\041\106\003\125\004
\013\023\032\150\164\166\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:14:40 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\066\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\167\167\167\167
\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\145\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:40 2037

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Open Source Used In UCM Cloud Analyzer Service 1.0 4527

<table>
<thead>
<tr>
<th>CKA_CLASS</th>
<th>CK_OBJECT_CLASS</th>
<th>CKO_CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8</td>
<td>&quot;Camerfirma Global Chambersign Root&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE</td>
<td>CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8</td>
<td>&quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
<td>02</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
<td>END</td>
</tr>
</tbody>
</table>
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
0620610600630600610600600600600600600600600600132

END

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\172\001\207\162\204\331\340\057
\030\322\330\351

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031

END

CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\001\100\06\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\230\036\101\103\010\03\141\155
\145\162\146\151\162\155\141\040\123\101\040\03\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004

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# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\013\023\032\150\164\160\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\040\040\006\003\125\004\006\023\002\125\123
\061\036\060\034\060\033\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\167\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\140\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\160\053\060\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\13\13\13\125\004\006\023\002\125\123
\061\036\060\034\060\033\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\167\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\304\217\246\342\043\205\325\172\201\15\275\152\340\135\135\4\354\027
\273\102\033\147\252\204\353\55\105\203\040\137\340\131\111\174\325\142
\076\372\362\135\055\53\32\375\23\145\50\02\03\03\01\00\00\00\124\3201
\237\50\60\201\12\34\060\23\06\01\11\05\03\06\00\01\00\4\01\20\067\024
\00\20\04\00\06\03\60\04\00\10\06\00\13\00\06\00\31\25\03\05\023\00\01\001377
\00\40\05\06\00\03\00\101\177\06\00\35\06\00\03\01\25\03\05\016\00\04\026
\00\40\02\4\03\60\117\242\075\00\61\143\204\111\234\316\142\344\04\0254
\121\51\134\265\351\266\03\06\06\06\06\00\03\125\03\05\037\00\04\057\060
\055\50\05\23\4\00\05\12\24\04\7\26\04\5\150\164\164\160\072\057\057
\143\162\154\056\170\162\141\155\160\163\145\143\165\162\151\164
\171\056\143\157\155\057\130\107\103\101\056\143\162\154\060\060\20
\006\01\11\05\3\06\00\100\4\00\01\20\2\067\25\00\01\004\00\03\02\00\1001
\06\00\15\00\06\01\10\52\2\06\11\2\06\3\2\70\15\01\00\1005\05\00\00\003
\20\20\01\10\000\22\1\25\07\10\03\01\033\147\373\11\20\34\371\1012
\140\133\24\133\21\152\27\142\371\04\12\347\27\20\2\144\116\220
\056\03\11\10\03\30\53\23\33\34\374\25\01\170\147\065\36\103\35\060\21
\275\267\10\13\34\03\20\36\60\01\15\33\07\77\32\23\11\266\25\25\25\244\110
\272\200\23\33\33\36\13\1\05\2\06\25\3\3\02\100\4\0\20\243\054\155
\251\236\00\11\176\077\05\11\16\00\22\33\33\37\35\1\12\22\163\21\211
\144\23\136\34\7\05\3\44\04\22\1\05\4\32\22\1\31\16\175\31\16\57\061\231
\332\34\6\276\32\22\06\22\22\36\01\10\24\1\11\134\04\3\253\11\15\222\332
\041\037\11\12\31\17\1\23\34\31\17\047\37\27\02\23\33\04\210\01\152\260
\212\144\10\10\61\27\00\16\15\4\22\20\04\4\24\24\23\13\4\16\12\17\27\2273
\176\034\03\33\33\15\2\00\00\17\04\12\74\35\1\333\246\267\100\364\262
\213\251\12\14\34\35\17\23\03\23\07\51\1\23\1\35\25\05\02\243\341
\074\263\360\262\02\21\3\17\1\174\1\100\346\335\347\103\17\242\330
\072\265\251\12\5\36\2\064\23\1\30\4\32\4\20\13\4\20\100\36\37\01\11\204\020
\073\356\30\4\14\36\4\35\04\174\1\102\30\21\164\174\20\21\01\11311
\264\00\4\05\274

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,O=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
cka_cert_sha1_hash MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\036
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\330\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\140\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Go Daddy Class 2 CA"
#
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject MULTILINE_OCTAL
\060\143\061\013\060\001\110\006\003\125\004\006\023\002\125\123
123061
# Trust for Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority, O=The Go Daddy Group, Inc., C=US

# Serial Number: 0 (0x0)

# Not Valid Before: Tue Jun 29 17:06:20 2004


# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\160\002
\217\040\356\344
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147
END

CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\0060\23\012\125\123\061
\041\060\37\006\003\125\004\012\023\030\12\150\145\040\107\157
\040\040\040\141\144\044\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\104\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\144\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Class 2 CA"
#
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.".,C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.".,C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\001\110\006\003\112\005\004\000\023\002\125\123\006
\045\060\043\006\003\112\005\004\012\023\034\123\146\116\146\151
\145\154\144\040\012\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\116\043\056\061\062\060\060\006\003\125\005\013\023
\051\123\164\116\23\146\151\145\144\040\010\3\154\141\163\163
\040\006\204\010\3\145\162\164\151\146\151\143\141\164\151\157\156
\040\010\116\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\001\110\006\003\112\005\004\000\023\002\125\123\006
\045\060\043\006\003\112\005\004\012\023\034\123\146\116\146\151
\145\154\144\040\012\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\116\043\056\061\062\060\060\006\003\125\005\013\023
\051\123\164\116\23\146\151\145\144\040\010\3\154\141\163\163
\040\006\204\010\3\145\162\164\151\146\151\143\141\164\151\157\156
\040\010\116\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\017\060\202\020\367\240\003\002\001\002\002\001\000
\060\150\061\013\060\001\110\006\003\112\005\004\000\023\002\125\123\006
\045\060\043\006\003\112\005\004\012\023\034\123\146\116\146\151
\145\154\144\040\012\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\116\043\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\116\23\146\151\145\144\040\010\3\154\141\163\163
\040\006\204\010\3\145\162\164\151\146\151\143\141\164\151\157\156
\040\010\116\164\150\157\162\151\164\171
END
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# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\343
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\066\062\060\060\006\033\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "DigiCert Assured ID Root CA"
#
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0:ce:e7:0e:e5:17:d8:46:fe:8e:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
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# Certificate "DigiCert Global Root CA"

# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\066\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\116\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006

END
# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAModificarable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"

# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAModificarable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"

# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAModificarable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKAModificarable CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\025\060\023\006\000\03\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\141\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\014\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\025\060\023\006\000\03\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\141\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\014\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\305\060\202\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END

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# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\126\323\234\205\023\305\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\165\162\141
\156\134\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\02\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

END
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\073\073\151\156\155\040\103\101\040\055\040\107\062

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\126\340\372\073\073\151\156\155\040\103\101\040\055\040\107\062
# Certificate "SwissSign Gold CA - G2"

# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:0b
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"

\356\060\037\006\003\125\035\043\004\030\060\026\200\024\133\045
\173\226\244\145\121\176\270\071\363\300\170\146\163\350\072\234
\360\356\060\106\060\060\033\125\035\040\040\077\060\075\060\073\006
\011\140\205\164\011\131\001\002\000\010\010\060\056\060\056\005\006\010
\053\006\001\005\005\007\000\002\001\026\040\015\164\164\160\072\057
\057\162\145\160\157\163\151\164\171\171\056\163\167\151\116
\163\163\151\147\156\056\143\157\155\057\060\015\006\011\052\206
\110\026\367\015\001\001\005\005\000\003\032\020\020\001\000\004\7272
\343\224\174\363\165\300\336\273\346\345\330\325\365\124\260\203
\364\273\315\160\055\173\117\237\165\146\257\074\350\126\176\374
\162\170\070\003\333\105\142\030\000\273\170\351\140\315\313\413\16
\121\121\307\120\061\156\341\112\176\030\057\151\113\266\075\144
\120\105\343\320\320\04\346\042\020\127\161\175\340\356\002\231\141\270
\036\64\270\053\210\022\026\204\302\061\223\070\226\061\124\6271
\073\123\077\033\044\223\126\131\131\222\354\305\301\273\070\000
\343\354\027\251\127\033\030\071\174\001\203\237\062\107\272\122\042
\064\035\062\172\011\111\26\247\174\045\066\251\075\113\332\300\202
\157\017\227\032\231\010\207\113\047\021\371\036\055\307\223\072\236
\333\137\046\165\122\233\105\212\123\124\124\024\306\104\215\025\251\267
\277\75\336\260\302\356\256\055\373\110\167\027\376\237\354\257
\030\365\059\121\136\060\071\020\242\227\255\154\156\033\030\053\304\164
\140\171\045\260\012\047\337\337\163\322\207\131\105\175\102\113
\337\263\054\040\363\035\061\135\311\125\072\240\234\151\123\217\332
\357\726\260\074\237\207\154\022\053\145\160\025\122\266\013\032\044
\317\157\061\043\120\037\214\117\217\043\303\164\101\143\034\125
\250\024\335\056\163\401\121\120\317\161\033\060\126\016\122\260\202
\205\330\203\033\130\042\144\274\055\270\045\352\124\242\270\006\352
\252\522\244\044\240\031\020\265\112\023\152\107\317\056\013\126
\225\124\313\161\232\333\152\264\246\262\333\101\102\060\047\167
\367\152\240\012\154\013\070\316\327\165\152\026\222\302\337\053
\060\042\110\032\302\255\101\070\045\315\244\351\135\237\306\022\4165
\320\105\375\060\027\210\032\217\220\253\012\037\206\163\140\112\151
\055\336\245\170\327\063\332\152\236\113\076\167\072\040\023\042
\001\320\277\150\263\143\140\153\065\115\013\155\272\241\075\300
\123\340\177\043\263\125\255\162\045\161\063\371\322\026\357\260
\144\301\000\126\351\132\240\152\230\016\317\330\140\362\057\111
\270\344\102\341\070\065\026\363\410\156\117\367\201\126\350\272
\124\376\043\257\256\375\157\003\340\002\073\060\166\637\203\315
\101\137\002\126\351\127\311\146\364\333\046\363\072\224\164\362
\111\044\133\311\126\320\127\301\137\076\172\341\227\311
END

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\305\070\212\267\060\033\033\156\324\172\346\105\045\072\157
\237\032\047\141
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\044\167\331\250\221\132\073\372\210\055\302\377\370\315\063\223

# Certificate "SwissSign Silver CA - G2"

# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\100\060\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\060\037\006\003\125\004\003\023
\030\012\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
# Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER_given_name UTF8 "0"
CKA_ISSUER_EMail UTF8 "0"
CKA_ISSUER TelNo UTF8 "0"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\002\240\240\003\002\001\002\002\020\157\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\001\110\066\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\1320
\015\006\011\052\206\110\206\367\015\001\00\005\000\060\110
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\040\060

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:02:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Certificate "Secure Global CA"

Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Not Valid After: Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

# Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:35:02:46:e5:3d
### Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

- **Not Valid Before:** Fri Dec 01 00:00:00 2006
- **Not Valid After:** Mon Dec 31 23:59:59 2029

<table>
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<tr>
<th>CKA_CLASS</th>
<th>C_OBJECT_CLASS</th>
<th>C_KO_CERTIFICATE</th>
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<td>CK_FALSE</td>
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<td>CK_BBOOL</td>
<td>CK_FALSE</td>
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<td>UTF8</td>
<td>&quot;COMODO Certification Authority&quot;</td>
</tr>
<tr>
<td>CK_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE</td>
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</tr>
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</table>

**CKA_SUBJECT MULTILINE_OCTAL**

```plaintext
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\1156\143\150\145\163\164\145\162\061\102\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\010\023\021\103\171\115\117\104\117
\104\103\101\040\114\151\115\151\164\145\144\061\104\060\045\006
\003\125\004\003\023\036\103\117\115\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
```

**CKA_ID UTF8** "0"

**CKA_ISSUER MULTILINE_OCTAL**

```plaintext
\060\201\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\1156\143\150\145\163\164\145\162\061\102\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\010\023\021\103\171\115\117\104\117
\104\103\101\040\114\151\115\151\164\145\144\061\104\060\045\006
\003\125\004\003\023\036\103\117\115\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
```

**CKA_SERIAL_NUMBER MULTILINE_OCTAL**

```plaintext
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
```

**CKA_VALUE MULTILINE_OCTAL**

```plaintext
\060\202\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\1156\143\150\145\163\164\145\162\061\102\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\010\023\021\103\171\115\117\104\117
\104\103\101\040\114\151\115\151\164\145\144\061\104\060\045\006
\003\125\004\003\023\036\103\117\115\104\117\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
```

**CKA_SERIAL_MULTILINE_OCTAL**

```plaintext
\060\202\201\202\004\350\060\202\003\005\240\003\002\100\102\002\102\020\116
\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END
```

**CKA_VALUE_MULTILINE_OCTAL**

```plaintext
\060\202\202\004\350\060\202\003\005\240\003\002\100\102\002\102\020\116
\201\055\212\202\145\340\013\002\356\076\065\002\106\345\075\060
\015\006\011\105\202\106\011\020\067\150\011\001\005\005\000\060\201
\201\061\013\060\011\006\003\125\004\006\023\002\107\102\061\103
\060\031\006\003\125\004\010\023\107\162\145\141\164\145\162
\140\151\115\156\143\150\145\163\164\145\162\061\102\060\160\006
\003\125\004\007\023\007\123\141\154\146\157\162\144\061\103\060
\030\006\003\125\004\012\023\102\103\117\115\117\104\117
```

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**Open Source Used In UCM Cloud Analyzer Service 1.0 4566**
# Trust for Certificate "COMODO Certification Authority"

# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce:53

# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

# Not Valid Before: Fri Dec 01 00:00:00 2006

# Not Valid After: Mon Dec 31 23:59:59 2029


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "COMODO Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Certificate "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After: Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"

CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509

END
\001\001\005\005\000\003\0202\001\001\000\0273\256\113\347\267\127
\353\177\252\055\267\163\107\205\152\301\134\244\245\035\344\347\074
\351\364\131\145\167\265\172\133\132\215\045\066\340\172\227\056
\070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\272
\210\054\374\105\314\030\260\231\225\121\016\354\035\270\210\377
\207\120\302\033\343\340\062\200\277\240\013\107\310\303\061
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256
\002\265\046\352\120\337\177\030\145\054\311\362\143\341\251\007
\376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022
\313\056\136\141\133\126\050\132\233\176\302\264\146\221\046\137\074
\056\044\137\313\130\017\353\050\354\257\021\226\363\334\173\157
\300\247\210\362\123\167\263\140\136\256\256\050\332\065\054\157
\064\105\323\046\341\136\354\133\117\047\153\026\174\227\104\004
\030\202\263\211\171\027\020\161\075\172\242\026\116\365\001\1315
\244\154\145\150\241\111\166\134\103\311\330\274\066\147\154\245
\224\265\324\314\271\275\152\065\126\041\133\033\033\353\373\313
\244\140\114\260\125\240\240\173\127\262
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
cka_Class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_TOKEN CK_BBOOL CK_TRUE
cka_PRIVATE CK_BBOOL CK_FALSE
cka_MODIFIABLE CK_BBOOL CK_FALSE
cka_LABEL UTF8 "Network Solutions Certificate Authority"
cka_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\033\357\347\263\220\006\113\203\220\074\041\144\140
\040\345\337\316
END
cka_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\030\037\215\035\131\261\055\226\115\016\021\056
END
cka_ISSUER_MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\060\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\160\060\056\060\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103

Open Source Used In UCM Cloud Analyzer Service 1.0 4571
# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

Open Source Used In UCM Cloud Analyzer Service 1.0 4572
# Trust for Certificate "COMODO ECC Certification Authority"

Issuer: CN=COMODO ECC Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB


Subject: CN=COMODO ECC Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB

Not Valid Before: Thu Mar 06 00:00:00 2008

Not Valid After: Mon Jan 18 23:59:59 2038


Trust for Certificate "COMODO ECC Certification Authority"

Issued by "COMODO ECC Certification Authority"


Subject: CN=COMODO ECC Certification Authority, O=COMODO CA Limited, L=Salford, ST=Greater Manchester, C=GB

Not Valid Before: Thu Mar 06 00:00:00 2008

Not Valid After: Mon Jan 18 23:59:59 2038


# Certificate "OISTE WISeKey Global Root GA CA"

# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\212\061\103\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\112\145\113
\145\171\106\133\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\140\105\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\07\154\157\142
\141\154\040\122\157\157\164\040\07\101\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\201\212\061\103\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\112\145\113
\145\171\106\133\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\140\105\060\046\006\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\113\145\171\040\07\154\157\142
\141\154\040\122\157\157\164\040\07\101\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\175\307\364\153\037\201\175\164\040\122\157\157\164\040\07\101\040\103\101
END
CKA_VALUE MULTILINE_OCTAL

Open Source Used In UCM Cloud Analyzer Service 1.0 4575
# Certificate "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

END

CKA_SERIALNUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END

CKA_VALUE MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\157\032\262\140\150\067\130\055\304
\254\375\224\227
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\056\114\013\114\051\114\241\063\124\235\147\072\145\204\323\226
\342\355\166\051\160\217\265\053\363\371\043\326\111\156\074\024
\265\336\237\065\126\032\030\121\152\161\040\002\142\313\226
\035\150\101\124\275\127\350\123\325\073\366\125\052\031\004
\364\134\036\377\327\157\054\267\140\132\207\100\021\325\201\043
\273\110\300\041\251\243\050\055\375\025\370\260\116\053\364\060
\133\041\137\40\122\106\246\275\101\135\71\133\257\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\253\127\246\133\175\102\202\031\265\330\130\046\050\136\375\377
END

CKA_ISSUER_MULTILINE_OCTAL
\060\064\061\013\060\011\011\060\033\125\004\006\023\002\106\122\061
\022\060\020\060\003\125\004\012\140\111\104\150\151\155\171\157
\164\151\163\060\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\323\343\300\017\311\110\377
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ePKI Root Certification Authority"
#
# Issuer: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Serial Number: 15:e8:bd:65:47:5ca:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After: Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\013\157\056\054\040\114\164\144\056\060\105\206\050\006\003\125\004\013\014\041\145\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164\144\056\060\105\206\050\006\003\125\004\013\014\041\145\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322\127\4235 END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\260\060\020\003\230\240\003\002\001\002\000\202\020\2025\310\275\145\107\134\257\270\227\000\136\344\006\322\227\4235060 \015\006\110\52\206\110\206\367\150\110\001\005\005\000\060\136 \061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060 \041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141 \040\124\145\154\145\143\157\155\040\103\145\162\164\151\146\151 \144\056\061\052\206\050\006\003\125\004\013\014\041\145\120\113 \111\040\122\157\157\164\040\103\145\162\164\151\146\151 \143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

Open Source Used in UCM Cloud Analyzer Service 1.0 4581
```
\000\060\007\006\005\147\052\003\000\004\024\105\260\302\307
\012\126\174\356\133\170\014\225\371\030\123\012\246\034\330\020
\060\015\006\011\015\220\06\102\06\367\015\001\001\005\000\000
\020\000\001\000\000\126\320\013\123\131\001\076\225\111\127\136\1201
\272\237\116\064\040\043\265\047\140\164\324\152\231\064\136\154\000
\123\311\237\362\224\626\104\040\007\104\152\052\303\265\242\161\170
\125\010\173\331\130\033\002\035\050\070\147\040\053\361\136\154\000
\012\007\011\126\163\303\212\146\110\373\051\201\127\164\006\312
\243\435\205\035\050\070\147\040\053\361\136\132\265\077\145\223\370\066
\135\126\121\251\100\040\207\031\352\357\047\300\075\264\047\011\017
\045\173\150\120\164\125\234\014\131\175\132\075\010\224\045\122
\10\034\010\075\054\025\060\103\312\325\277\007\125\306\273\022\265\227
\136\013\7\020\052\272\161\031\031\154\201\021\166\012\012\260\277
\20\22\27\367\352\075\372\372\354\055\251\050\224\073\126\335\322
\121\056\256\030\275\010\025\214\167\122\064\226\326\233\254\333
\035\216\141\017\065\173\233\125\067\011\151\013\142\140\100\040\066
\217\257\373\066\356\055\010\112\035\270\272\233\134\370\352\245
\033\240\163\240\330\370\156\340\063\300\041\371\150\252\047\207\355
\331\130\122\023\344\355\275\343\152\065\257\143\337\253\030\331\272
\346\035\112\123\352\020\120\174\141\223\036\342\055\031\342\060\224
\065\252\135\166\026\007\275\031\120\217\011\220\121\113\035\011
\335\205\342\342\020\121\122\012\027\232\374\032\260\120\000\023\450\001
\243\143\067\041\114\104\034\023\231\121\313\021\016\163\234\300\061\217
\124\050\247\050\013\610\040\071\207\126\055\067\275\205\014\242\343
\014\113\054\234\303\222\205\064\141\133\017\270\233\112\103\122
\376\064\072\175\270\351\050\334\166\251\131\006\060\370\024\161\1200
\306\036\066\110\164\042\101\134\020\207\023\350\030\161\121\131\101\111
\043\047\176\161\013\133\250\270\215\023\351\1247\1543\303\107\355\0263
\032\235\142\256\215\202\352\224\236\335\131\020\033\255\335\342
\115\033\061\132\305\037\354\350\362\269\376\222\036\026\012\032\374
\331\136\370\047\266\311\276\035\264\1541\440\220\177\364\3443\304
\133\327\067\256\102\016\335\244\032\157\174\210\124\305\026\156
\341\172\150\056\370\072\227\015\244\074\211\073\170\247\116\143
\203\004\010\141\174\215\352\202\011\320\133\375\2613\131\017\023
\204\324\076\040\205\367\112\075\053\324\375\052\012\011\153\352
\201\370\021\234
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\145\015\361\176\216\176\133\202\100\244\364\126\113\317\342\075\151\306\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\056\000\312\046\006\220\075\255\376\157\025\150\323\153\263\END
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\161\144\140\056\061\052\060\050\006\003\125\004\013\014\041\145\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\022\000\136\344\006\322\274\235\END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN ROOT CA"
#
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CREDENTIAL_TYPE CK_CREDENTIAL_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\122\117\061
Open Source Used In UCM Cloud Analyzer Service 1.0  4586

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350
\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\040\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\100\06\003\125\004\006\023\002\122\117\061
\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111
\107\116\061\031\060\027\006\003\125\004\013\023\020\143\145\162
# Certificate "NetLock Arany (Class Gold) Ftanstvny"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\247\061\013\060\011\006\003\125\004\006\023\002\110\125\061\121\106\017\006\003\125\004\007\140\110\126\145\155\164\112\141\156\133\155\125\061\124\155\141\141\116\161\125\121\116\155\143\153\040\113\146\164\150\142\026\155\123\133\217\161\123\111\107\116\040\122\117\117\124\040\103\101
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\124\70\061\013\060\011\006\003\125\004\006\023\002\110\125\061\121\106\017\006\003\125\004\007\140\110\126\145\155\164\112\141\156\133\155\125\061\124\155\141\141\116\161\125\121\116\155\143\153\040\113\146\164\150\142\026\155\123\133\217\161\123\111\107\116\040\122\117\117\124\040\103\101
END

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# Certificate "Hongkong Post Root CA 1"

# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\332\250\040\215\013\322\250\155\057\313\064\156\262
\130\262\212\130
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\03\060\001\100\06\003\125\004\006\020\022\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END

CKA_ISSUER_MULTILINE_OCTAL
\060\130\006\101\130\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\141\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After: Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

END

END
# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\037\134\067\175\124\332\221\341\001\061\016

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\027\104\055\203\276\110\151\175\051\144\374\261

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125\061\012\060\017\006\003\125\004\007\014\010\126\144\141\160\145\163\164\060\026\060\003\125\004\001\120\114\151\151\143\162\157\163\145\143\040\114\164\144\056\061\047\060\004\050\06
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145\155\123\172\151\147

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\156\157\056\150\165
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\002\176\103\004\116\107\077\031
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GlobalSign Root CA - R3"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\023\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\023\063\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\014\130\123\010\0242
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\137\060\022\002\107\240\003\002\001\002\002\013\004
\000\000\000\000\000\001\041\130\123\102\242\060\015\006\011\052\206
\110\206\136\15\001\001\013\005\000\060\114\061\040\060\036\006
# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133\205\151\166\255
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\303\076\260\050
END
CKA_ISSUER MULTILINE_OCTAL
\063\037\072\073\045\322\206\100\316\073\054\206\170\311\141\057\024\272\356\333\125\157\037\204\356\005\011\115\275\050\330\162\316\323\142\120\145\036\353\222\227\203\061\331\263\265\312\107\130\077\137
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Serial Number: 53:ec:3b:ee:fb:b2:48:5f
Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
Not Valid Before: Wed May 20 08:38:15 2009
Not Valid After: Tue Dec 31 08:38:15 2030

CKA_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_TRUE
CKA_PRIVATE CK_FALSE
CKA_MODIFIABLE CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_SUBJECT MULTILINE_OCTAL
0601121061101360011100600311250040060230021051123061
1020601000060031125004003011407111011651164115711621151
14411411440401141450401031145162116411511146115111431141
14311511571156040110611511162115511116011621157114611451163
151157115611141154040103111106040101066062066063064
060066070

END

CKA_VALUE MULTILINE_OCTAL
0601201061101360011100600311250040060230021051123061
1020601000060031125004003011407111011651164115711621151
14411411440401141450401031145162116411511146115111431141
14311511571156040110611511162115511116011621157114611451163
151157115611141154040103111106040101066062066063064
060066070

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002010123\354\356\373\262\110\137

END

CKA_ISSUER MULTILINE_OCTAL
0601201061101360011100600311250040060230021051123061
1020601000060031125004003011407111011651164115711621151
14411411440401141450401031145162116411511146115111431141
14311511571156040110611511162115511116011621157114611451163
151157115611141154040103111106040101066062066063064
060066070

END

CKA_ID UTF8 "0"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After: Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\003\014\071\101\165\164\157\162\151\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In UCM Cloud Analyzer Service 1.0  4608

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\140\133\111\132\105\116\120\105
\040\123\056\101\056\061\023\060\210\060\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
# Certificate "Chambers of Commerce Root - 2008"

# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

# Serial Number:00:a3:da:42:7e:a4:b1:ae:da

# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU

# Not Valid Before: Fri Aug 01 12:29:50 2008

# Not Valid After : Sat Jul 31 12:29:50 2038


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END
```
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
```

# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Serial Number: 00:a3:da:42:7e:a4:b1:ae:da

```
# Subject: CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid
# (see current address at www.camerfirma.com/address), C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After: Sat Jul 31 12:29:50 2038
```

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
```
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\060\120\272\236\250\176
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\125\061\013\060\011\060\003\125\004\006\023\012\105\125
\061\103\060\101\006\000\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\165\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\146\040\167\167\056\143\141
\155\145\162\146\151\162\155\141\106\143\157\155\057\141\144\144
\162\145\163\163\051\061\022\060\020\130\003\125\004\005\023\011
\101\070\062\067\064\036\020\107\067\061\033\060\031\130\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\140\123\056\010\105\060\037\006\003\125\004\003\023
\040\013\150\141\155\142\145\162\163\040\157\146\040\103\137\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\244\261\125\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Global Chambersign Root - 2008"
#
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\306\234\211\256\307\122\241\054\133\051\136\63\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\014\056\130\106\027\53\176\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\125\046\101\030\060\011\006\003\012\50\004\006\023\002\015\125
\061\103\006\003\125\004\007\023\072\115\141\144\162\151\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\061\122\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\010\103\040\103\141\155\145\162\146\151\162\155
\141\140\123\056\101\056\061\047\060\045\006\003\125\004\003\023
\103\61\07\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\102\157\157\164\040\055\040\062\060\060\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\311\135\323\351\325\175\043\316
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Go Daddy Root Certificate Authority - G2"
#
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\203\061\013\060\001\100\60\003\125\004\006\023\002\125\123
\061\200\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\161\163\144\141\154\145\061\103\020\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\07\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\07\062
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\201\203\061\013\060\001\100\60\003\125\004\006\023\002\125\123
\061\200\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\161\163\144\141\154\145\061\103\020\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\07\157
\040\104\141\144\144\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164
\171\040\055\040\07\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
END

CKA_ISSUER MULTILINE_OCTAL
END
"Certificate "Starfield Root Certificate Authority - G2"


Serial Number: 0 (0x0)

Subject: CN=Starfield Root Certificate Authority - G2,O=Starfield Technologies, Inc.,L=Scottsdale,ST=Arizona,C=US

Not Valid Before: Tue Sep 01 00:00:00 2009

Not Valid After: Thu Dec 31 23:59:59 2037


CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

TOKEN CK_BBOOL CK_TRUE

PRIVATE CK_BBOOL CK_FALSE

MODIFIABLE CK_BBOOL CK_FALSE

LABEL UTF8 "Starfield Root Certificate Authority - G2"

CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

SUBJECT MULTILINE_OCTAL

ID UTF8 "0"

ISSUER MULTILINE_OCTAL

Open Source Used In UCM Cloud Analyzer Service 1.0 4621
Open Source Used In UCM Cloud Analyzer Service 1.0

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc." L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\324\347\017\016

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\374\374\312\146\355\005\362\226

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\217\013\060\011\006\003\125\004\006\023\002\125\123
\061\200\060\160\060\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\060\021\060\003\125\004\007\023\012\123\143\157
\164\164\163\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\060\060\031\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Starfield Services Root Certificate Authority - G2"
#
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\200\060\160\060\003\125\004\010\023\007\101\162\151\172\157
\156\141\161\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\060\060\031\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "Starfield Services Root Certificate Authority - G2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Services Root Certificate Authority - G2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\245\043\133\172\172\370\063\077\270\357\231\227\343\040\301\326
\050\211\137\224\373\271\105\355\343\100\027\021\324\164\360\013
\061\134\053\046\152\233\114\127\256\254\040\076\272\105\172\005
\363\275\231\151\025\256\617\116\040\143\304\065\166\072\007\002
\311\067\375\307\103\356\350\361\166\035\163\025\362\227\244\265
\310\172\171\331\102\252\053\177\134\373\363\160\046\117\243\146\201
\065\257\104\272\124\036\034\060\062\145\235\346\074\223\136\120
\116\172\334\072\324\156\314\032\373\371\322\067\256\044\052\253
\127\003\042\050\015\111\165\177\267\050\332\165\277\216\343\234
\016\171\061\002\000\000\012\431\020\60\100\060\035\006\003
\125\035\016\004\026\004\024\235\223\036\123\213\136\312\257\077
\237\036\017\345\323\122\274\044\366\224\217\060\017\006\003\012
\035\023\001\001\377\004\005\005\003\001\001\377\060\016\006\003
\125\035\017\001\000\013\377\004\000\003\002\009\001\000\060\015\006\011
\052\206\110\206\367\015\001\001\013\000\000\003\020\000\001\000
\130\254\364\004\016\315\300\015\377\012\375\324\272\026\137\051
\275\173\150\213\130\011\132\226\040\355\067\115\177\047\175\106\006
\135\013\306\020\056\076\163\326\046\175\117\223\251\266\040\052
\232\253\041\227\024\261\136\214\323\253\211\025\330\153\044\324
\361\026\256\300\244\134\324\177\121\216\355\030\001\261\223\143
\275\274\370\141\200\232\236\261\161\102\160\034\251\175\060\004
\175\047\241\376\157\354\263\036\044\323\343\113\125\032\000\073
\065\252\047\331\132\271\135\060\075\201\023\211\362\302\006\033\355
\147\034\216\313\110\032\262\134\153\025\211\002\274\142\374\116\362
\265\063\252\262\157\323\012\242\120\343\366\073\350\056\043\302
\333\146\070\251\063\126\110\361\115\033\063\215\151\214\077\140
\067\235\323\132\155\176\064\176\015\237\162\166\213\033\237\162
\375\122\065\101\010\002\226\057\034\262\232\163\111\044\261\111
\107\105\107\264\357\152\064\021\311\113\232\134\131\267\326\002
\236\132\116\145\265\224\256\033\337\051\260\026\351\277\000\0236
\007\072\027\144\265\004\265\043\041\231\012\225\073\227\174\357
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOLE CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOLE CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOLE CK_FALSE

# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOLE CK_TRUE
CKA_PRIVATE CK_BBOOLE CK_FALSE
CKA_MODIFIABLE CK_BBOOLE CK_FALSE
# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\104\061\013\012\006\03\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\03\157\155\155
\145\162\143\151\141\154

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\03\157\155\155
\145\162\143\151\141\154

END
# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\601\232\232\114\251\214\101\111\135\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\01\04\06\01\01\03\06\01\11\06\03\03\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\062\024\115\247\244\337\354\276\247\276\370\103\333\221\067\316
\264\062\056\120\125\032\065\116\166\031\161\040\357\223\167\116
\025\160\056\203\030\010\351\553\343\313\265\047\324\054\1263\21
\122\123\072\104\322\163\130\164\033\005\145\131\214\222\234\356
\101\125\061\133\347\064\352\13\041\325\001\172\327\144\270\144
\071\131\313\055\257\355\130\031\102\247\240\231\001\200\334\145
\243\060\256\145\171\110\117\202\113\310\145\361\127\035\345\131
\056\012\077\154\330\321\136\345\011\264\154\124\000\012\340\025
\115\020\165\155\267\130\226\132\335\155\322\000\240\364\233\110
\276\030\067\244\272\066\340\174\207\205\227\032\025\242\336\056
\242\133\275\257\030\371\220\120\315\160\131\370\047\147\107\313
\307\240\007\072\175\321\054\135\154\031\072\146\265\175\175\375\221
\157\202\261\127\60\102\233\333\024\107\361\124\067\307\105\236\074
\307\167\257\144\250\223\337\366\151\203\201\140\362\111\102\064
\355\132\000\124\205\034\026\066\222\014\372\246\255\277\333
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "AffirmTrust Premium ECC"

# Issuer: CN=AffirmTrust Premium ECC, O=AffirmTrust, C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC, O=AffirmTrust, C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\006\101\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155
\124\162\165\163\164\061\034\060\032\060\003\125\004\003\014\023
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155
END

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CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\206\123\001\125\154\021\244\067\312
\353\377\303\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\144\260\011\125\317\261\123\001\125\154\021\244\067\312
\353\377\303\273
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\001\110\066\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\040\060\036\060\003\125\004\003\014\027
\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\013\013
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\10\164\227\045\212\307\077\172\124
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Network CA"
#
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\063\060\060\011\006\000\03\125\004\006\023\002\120\114\061
\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\156\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\063\060\060\011\006\000\03\125\004\006\023\002\120\114\061
\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\156\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\104\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004\104\300\060\015\011\052\206\110\206\367\015\001\001\005\005
\000\060\176\061\013\060\011\006\000\03\125\004\006\023\002\120\114
\061\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\151\162\145\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\001\060\176\061\013\060\011\006\000\03\125\004\006\023\002\120\114
\061\042\060\040\000\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\151\162\145\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\015\157\156\054\140\054\211\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\013\060\001\100\003\125\004\006\023\002\120\114\061
\042\060\040\000\003\125\004\012\23\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\014\030
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "TWCA Root Certification Authority"
#
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority, OU=Root CA, O=TAIWAN-CA, C=TW
# Serial Number: 1 (0x1)
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTERCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "TWCA Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\236\207\155\323\353\374\102\046\227\243\265\243\172\240\166
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\010\217\366\371\173\267\362\261\247\036\233\352\352\275\171 END

CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\140\011\124\101\111\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\140\007\122\157
\157\164\040\103\101\061\052\060\050\006\003\125\004\003\140\041
\124\127\103\101\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001\001 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Explicitly Distrust DigiNotar Root CA"
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END

END
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\002\004\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\002\004\017\377\377\377

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\377\377

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After: Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\135\061\133\060\060\011\006\003\125\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163\164\145\155\163\040\031\117\105\104\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\133\060\060\011\006\003\125\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\124\162\165\163\164\040\123\171\163\164\145\155\163\040\031\117\105\104\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\202\002\137\240\003\002\001\000\202\002\001\000\060\015\006\011\052\206\110\206\037\015\001\001\013\005\000\060\135\061\133\060\011\006\003\125\004\006\023\002\112\120\061\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040\162\165\163\164\040\123\171\163\164\145\155\163\040\013\117\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "Security Communication RootCA2"

# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." ,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." ,C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\073\214\362\370\020\263\175\170\264\316\354\031\031\303\163
\064\271\307\164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\103

END

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\001\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\23\034\123\105\033\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\033\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel(c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel(c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# For Server Distrust After: Sat Dec 28 00:00:00 2019
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
\061\071\061\062\060\060\060\060\060\060\132
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END
# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011

CKA_ISSUER MULTILINE_OCTAL
\060\201\363\061\013\060\001\11\006\003\125\004\006\023\002\105\123
\061\107\060\071\006\003\125\004\012\203\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\040\144\145\040\103
\145\141\146\151\143\141\143\141\157\040\050\116\111\110
\040\121\055\060\070\060\061\106\107\066\055\111\051\106\105\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\104\144\145\040\103\145\162\164\151
\146\151\143\141\143\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\104\150\164\164\160\163\072\057\057
\167\167\167\150\143\141\116\143\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\126\145\162\141\116\116
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\156\150\170\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\03\103

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\356\053\075\353\324\041\133\60\24\250\142\254\004\363\335
\304\001

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
Certificate "Hellenic Academic and Research Institutions RootCA 2011"

Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011, O=Hellenic Academic and Research Institutions Cert. Authority, C=GR

Serial Number: 0 (0x0)

Subject: CN=Hellenic Academic and Research Institutions RootCA 2011, O=Hellenic Academic and Research Institutions Cert. Authority, C=GR

Not Valid Before:Tue Dec 06 13:49:52 2011

Not Valid After: Mon Dec 01 13:49:52 2031


Class CK_OBJECT_CLASS CKO_CERTIFICATE

Token CK_TRUE

Private CK_FALSE

Modifiable CK_FALSE

Label UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

Certificate Type CK_CERTIFICATE_TYPE CKC_X_509

Subject

Issuer

Serial Number

ID 0

Issuer

Serial Number MULTILINE_OCTAL
Open Source Used In UCM Cloud Analyzer Service 1.0  4661

```
\345\330\023\004\043\356\101\045\060\107\006\003\125\035\036\004
\100\060\076\240\074\060\005\202\003\056\147\162\060\005\202\0
\056\145\165\060\006\202\004\056\145\144\165\060\006\202\004\056
\157\162\147\060\005\201\003\056\147\162\060\005\201\003\056\145
\165\060\006\202\004\056\145\144\165\060\006\202\004\056\157\162
\147\060\015\006\011\052\206\110\206\367\015\001\001\005\005
\003\202\020\001\001\000\037\357\171\101\341\173\156\077\262\214\206
\067\102\112\116\034\067\036\215\146\272\044\201\311\117\022\017
\041\13\003\022\206\045\155\135\333\042\051\125\154\242\152\152
\135\075\006\133\231\102\307\314\033\032\064\177\253\016\310\116
\034\341\372\344\333\034\151\015\276\277\044\376\154\347\153\032\015
\310\006\236\116\215\141\050\246\152\375\345\366\142\352\030\074
\116\240\123\235\262\072\234\353\245\234\221\026\266\115\202\340
\014\005\110\251\154\365\314\370\031\032\511\264\360\002\245\375
\160\003\355\212\041\124\256\023\206\111\130\063\163\276\207\073
\164\213\027\105\046\114\026\121\120\337\147\175\315\115\143\147
\372\263\003\022\226\170\006\215\261\147\355\216\077\267\237\117
\002\236\263\011\105\363\114\207\333\052\231\125\174\001\134\254
\066\172\277\242\163\172\367\217\301\265\232\241\024\262\217\063
\237\015\357\042\333\146\173\204\275\105\027\006\075\074\312\271
\167\064\217\312\335\231\077\061\076\343\210\343\200\111\045\310
\122\265\235\232\231\115\260\007\437\011\200\233\144\335\237\071
\113\321\047\237\270
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\317\003\133\230\024\141\265\121\056\254\332\130
\011\110\042\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After: Apr 4 15:37:15 2021 GMT

# Open Source Used in UCM Cloud Analyzer Service 1.0 4662
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After : Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

# Certificate "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\011\124\061
\016\060\014\000\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\014\000\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\056\056\010\056\057\056\063\063\065\070\065\056
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\011\165\164\150\145\156\164\151\143
\141\164\151\157\056\040\122\157\157\164\040\010\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\011\124\061
\016\060\014\000\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\014\000\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\056\056\101\056\057\056\063\063\065\070\065\056
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\011\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\010\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\10\127\012\021\227\102\304\343\314
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\127
\012\021\227\102\304\343\314\141\154\151\163\040\011\165\164
\150\145\141\141\154\151\163\040\011\165\164
\150\145\156\164\151\143\141\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\063\065\070\065\062\060\071\060\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\011\165\164
\150\145\156\164\151\143\141\141\154\151\163\040\123\056\160\013\060\011\060\003\125\004\006\023\002
\111\124\061\160\060\014\006\003\125\004\007\014\005\115\151\154
\141\156\016\104\003\125\004\012\014\032\101\143\164
\141\154\151\163\040\123\056\160\056\101\056\057\060\063\065
\070\065\062\060\071\066\067\061\047\060\045\006\003\125\004\003
\140\036\101\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\010\101
\172\206\323\145\020\031\030\032\227\002\261\053\162\102\150\254
\240\275\116\132\333\030\277\153\230\201\132\375\232\276\136\025
\110\315\020\212\257\1\300\051\134\264\350\210\367\076\066\256\026
\142\375\036\142\333\160\170\020\034\110\333\322\274\424\070\272
\147\355\125\076\136\127\337\324\003\100\114\201\142\322\117\143
\247\110\021\011\024\374\000\251\302\200\163\117\056\300\000\331
\021\173\110\352\172\002\300\323\353\150\124\164\031\030
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\042\227
\137\116\037\212\224\372\376\054\243\333\016\032\270\115\262\070
\117\233\372\035\110\140\171\046\342\163\375\251\320\232\350\160
\217\111\172\236\345\275\012\016\333\055\363\215\277\353\134\244
\175\313\037\225\161\350\332\243\174\305\302\370\164\122\004\033
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\200
\065\237\166\077\156\345\220\156\240\246\046\242\270\054\276\321
\053\205\375\247\150\310\272\001\053\326\115\164\035\270\163\322
\347\356\267\070\045\360\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\340\010\336\066\146\377\067\245\321\273\124
\144\50\305\147\265\113\222\176\145\377\323\055\341\271\116\274
\177\244\101\041\122\010\167\246\071\037\352\236\343\237\320\146
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\020\147\045\045\067\170\114\121\152\260\363\341\130\135\024
\361\152\110\025\377\302\007\266\261\125\017\216\134\120\106\263
\075\277\001\230\117\262\131\124\107\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\217\057\056\270\056
\216\362\024\212\314\351\126\174\373\154\235\014\245\341\126
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:4c:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\122\362\363\112\316\031\053\335
\307\216\234\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
Open Source Used In UCM Cloud Analyzer Service 1.0

# Certificate "Buypass Class 2 Root CA"
#
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Buypass Class 2 Root CA"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
# CKA_ID UTF8 "0"
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\106\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\140\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314
END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306 \
\013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\122\233\170\104\233\051 
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\001\000\003\125\004\006\023\002\116\117\061 \
\035\060\033\000\003\125\004\012\014\024\102\165\171\160\141\163 \
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 \
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163 \
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101 
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Buypass Class 3 Root CA"
#
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
Open Source Used In UCM Cloud Analyzer Service 1.0 4671

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\130\060\011\100\060\003\125\004\006\023\002\116\117\061
\035\060\033\060\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\060\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\130\060\011\100\060\003\125\004\006\023\002\116\117\061
\035\060\033\060\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\060\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\060\202\003\101\240\003\002\001\002\002\001\002
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\0060
\116\061\103\060\011\006\000\03\125\004\006\023\002\116\117\061\035
\060\033\060\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\060\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END

\060\037\021\125\004\010\102\024\115\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\060\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
\027\015\064\060\061\060\062\066\060\070\062\070\065\070\0132
\116\061\103\060\011\006\000\03\125\004\006\023\002\116\117\061\035
\060\033\060\003\125\004\012\014\024\102\165\171\160\141\163\163
\040\101\123\055\071\070\063\061\066\060\063\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\040
\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
\020\002\042\060\150\061\1052\206\110\206\367\015\001\001
\100\050\000\03\202\002\017\000\060\202\002\012\002\202\002\001\000
\245\332\012\225\026\120\343\225\362\136\235\166\061\006\062\172
\123\361\020\160\270\000\023\226\122\066\315\044\107\260\237\030
\144\274\232\366\372\325\171\130\220\142\114\042\015\336\007\0075
\326\340\250\351\034\045\333\170\021\315\126\150\121\025\162\307
\363\063\207\344\240\135\013\134\300\127\007\052\060\036\315\0304
\067\167\050\115\030\221\346\277\325\122\375\161\1055\160\076\347
\306\034\212\343\360\050\013\364\166\230\241\123\207\125\262\072
\23\374\267\076\047\067\216\042\334\320\117\052\357\140\273\075
\267\071\130\016\001\107\231\135\022\117\333\103\372\127\241\1355
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_ISSUER MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\073\022\201\245\274\251\144\127
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
# Certificate "T-TeleSec GlobalRoot Class 3"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services

# Not Valid After : Sat Oct 01 23:59:59 2033

END
# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276\201\343\201\321

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\132\373\100\250\116\071\222\212\035\376\216\057\304\047\352\357

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164\145\040\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155

END
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=TR.RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=TR.EGO.BILGI.SUNUCU.SERTIFIKASI Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
00200001001
END

# CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_NOT_TRUSTED

# CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_NOT_TRUSTED

# CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_NOT_VERIFY_TRUST

# CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=TR.RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=TR.EGO.BILGI.SUNUCU.SERTIFIKASI Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

# CKA_CLASS
CK_OBJECT_CLASS CKO_NSS_TRUST

# CKA_TOKEN
CK_BBOOL CK_TRUE

# CKA_PRIVATE
CK_BBOOL CK_FALSE

# CKA_MODIFIABLE
CK_BBOOL CK_FALSE

# CKA_LABEL
UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=TR.RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=TR.EGO.BILGI.SUNUCU.SERTIFIKASI Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
00200001001
END

# CKA_TRUST_SERVER_AUTH
CK_TRUST CKT_NSS_NOT_TRUSTED

# CKA_TRUST_EMAIL_PROTECTION
CK_TRUST CKT_NSS_NOT_TRUSTED

# CKA_TRUST_CODE_SIGNING
CK_TRUST CKT_NSS_NOT_VERIFY_TRUST

# CKA_TRUST_STEP_UP_APPROVED
CK_BBOOL CK_FALSE
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ilet@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez
# Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
# Certificate "D-TRUST Root Class 3 CA 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After : Mon Nov 05 08:35:58 2029
# Certificate "D-TRUST Root Class 3 CA 2 2009"
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJEC MULTILINE_OCTAL
\060\120\061\013\060\001\11\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\010\055\124\162\165\163
\164\040\107\155\142\11\006\052\060\050\006\003\125\004\003\1014
\014\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\101\010\040\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\001\11\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\010\055\124\162\165\163
\164\040\107\155\142\11\006\052\060\050\006\003\125\004\003\1014
\014\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\101\010\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\060\202\003\053\240\003\002\001\002\002\003\011\203\364\060\015\006\011\052\206\11\026\367\015\001\001\13\005
\000\060\12\060\011\006\003\125\004\006\023\002\104\105\061
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\163\164\040\107\155\142\11\006\052\060\050\006\003\125\004\003
\014\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\154\116\163\163\040\063\040\103\010\040\062\040\105\126\040\062
\060\060\071\060\036\027\015\060\011\061\061\060\065\060\070\065
\060\060\066\066\132\027\015\062\071\061\061\060\065\060\070\065\060
\060\069\12\060\12\060\12\013\060\011\010\060\003\125\004\006\023\001
\104\105\061\025\060\023\006\003\125\004\012\014\104\104\055\124
\162\165\163\164\040\107\155\142\11\061\052\060\050\006\003\125
\004\003\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\104\103\154\141\163\163\040\063\040\103\010\040\062\040\105\126
\040\062\060\060\060\071\060\202\001\010\042\060\015\060\011\052\206\11\010
\026\036\15\015\001\001\100\050\000\003\203\020\101\000\060\202\001
\101\200\02\001\010\000\023\136\120\064\160\272\057\267\060\240
\126\175\174\040\317\276\142\274\231\375\202\227\322\172\121\147
\226\070\113\666\020\116\225\042\163\231\125\332\205\055\347\005
\374\031\163\042\267\216\230\000\274\047\075\254\241\154\373\326
\171\145\13\255\360\314\144\332\210\076\051\270\017\011\323\064
\335\063\365\042\341\135\031\351\356\030\117\114\130\256\342
\303\632\601\14\335\025\132\330\072\270\030\040\141\036\343\063\326
\265\116\167\116\014\277\331\224\153\023\227\157\022\243\376\231

Open Source Used In UCM Cloud Analyzer Service 1.0 4682
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140 \372\271\026\203 
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\117\266 
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061 \025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163 \164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014 \041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154 \141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060 \060\071 
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364 
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "CA Disig Root R2"
# # Issuer: CN=CA Disig Root R2, O=Disig a.s., L=Bratislava, C=SK
# Serial Number: 00:92:b8:88:db:b0:8:ac:1:63
# Subject: CN=CA Disig Root R2, O=Disig a.s., L=Bratislava, C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042
Open Source Used In UCM Cloud Analyzer Service 1.0

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# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C(SK
# Serial Number:00:92:b8:88:db:b0:8ac1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C(SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

---

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

---

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

---

CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

060102061022060020060603125004003014011110111031103126112101111132061061020060016000603125004013014
007120113111101110311031260610150601013060603125004013014
0120140040110110311260610130600110060603125004006
0230021051123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

060102061022060020060603125004003014011110111031103126112101111132061061020060016000603125004013014
007120113111101110311031260610150601013060603125004013014
0120140040110110311260610130600110060603125004006
0230021051123

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

00201013630332672461031177244340

END

CKA_VALUE MULTILINE_OCTAL

0602020007323060202005273240003002001020020101136
0326724610177244340060015006011052206110206367

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Open Source Used In UCM Cloud Analyzer Service 1.0 4690
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
cka_cert_md5_hash multiline_octal
\274\123\144\027
end

ckaIssuer multiline_octal
\126f\122\101\111\111\132\061\106\110\020\014\003\013\014
\007\120\113\111\101\116\022\060\020\125\004\003\014\001
\012\014\004\101\103\013\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
end

cka_serial_number multiline_octal
\126f\122\101\111\111\132\061\106\110\020\014\003\013\014
\007\120\113\111\101\116\022\060\020\125\004\003\014\001
\012\014\004\101\103\013\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
end

#
# Certificate "TWCA Global Root CA"
#
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "TWCA Global Root CA"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
\060\121\013\060\011\106\003\125\004\006\023\002\124\127\061
\022\120\002\120\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\101\110\061\020\060\014\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\013\101
end

cka_id utf8 "0"
ckaIssuer multiline_octal
\126f\122\101\111\111\132\061\106\110\020\014\003\013\014
\007\120\113\111\101\116\022\060\020\125\004\006\023\002\124\127\061
\022\120\002\120\006\003\125\004\012\023\011\124\101\111\127\101\116
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\137\053\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\060\13\060\01\100\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\103\040\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
Open Source Used In UCM Cloud Analyzer Service 1.0

# Trust for "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\323\301\116\152\222\366\317\366\064
\151\207\202\067
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\000\245\114
END

CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\010\040\166\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\026\276\026\240\367\056\066\361\173\071\202\162\372
\213\315\226
END

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\325\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\000\245\114
END

CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\010\040\166\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\026\276\026\240\367\056\066\361\173\071\202\162\372
\213\315\226
END

END
# Certificate "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili...im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu...ra EBG Bili...im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SUBJECT MULTILINE_OCTAL

END
# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Bilişim Teknolojileri ve Hizmetleri Ankara,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Bilişim Teknolojileri ve Hizmetleri Ankara,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

END
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\02\11\006\003\125\004\006\02\010\105
\061\053\060\051\060\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\151\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\02\11\006\003\125\004\006\02\010\105
\061\053\060\051\060\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\151\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
END
# Certificate "Atos TrustedRoot 2011"

# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"

CKA_SUBJECT_MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\032\104\105
END

CKA_ID UTF8 "0"

Open Source Used In UCM Cloud Analyzer Service 1.0 4706
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTIILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTIILINE_OCTAL

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06011006011306000111006000311250040060023002102115061
0310600270060003125004012023020121165157126141144
151163040114151155115116414514406103600340006003
12500403030230251211651571261411441511630401221157
157164040103101040061040107063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06011006011306000111006000311250040060023002102115061
0310600270060003125004012023020121165157126141144
151163040114151155115116414514406103600340006003
12500403030230251211651571261411441511630401221157
157164040103101040061040107063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020241701130137056255054031113343067007065064023
0502652226324145223
END
CKA_VALUE MULTILINE_OCTAL
060120102005140060202003111002400031021000110020020240170
130137056255054031113343067007065064023050265226
32414522306001500601110522061102063670150001001013
0050000601100610130600110060031125004006023002102
11506103106002700600031125004012023020121165157126
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In UCM Cloud Analyzer Service 1.0 4711
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\033\216\352\127\226\051\032\311\071\352\270\012\201\032\163\163
\300\223\171\147
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\144\360\342\372\005\075\013\253
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\010\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\141\151\155\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\006\010\040\070\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\137\056\255\054\031\113\343\067\007\065\064\023
\050\265\226\324\145\223
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\010\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\006\023\002\102\115\061

Open Source Used In UCM Cloud Analyzer Service 1.0 4712
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\073\165\070\002\005\000\341\045\365\110\053\073\170\355\146\304\216\171\151\203\366\177\214
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077
\374\267\003\111\002\133\310\045\346\342\124\070\365\171\207\214
\035\123\262\116\205\173\006\070\307\054\370\260\162\215\045
\345\167\122\364\003\034\110\246\120\137\210\040\060\156\362\202
\103\253\075\227\204\347\123\373\041\301\117\017\042\232\206\270
\131\052\366\107\075\031\210\055\350\205\341\236\354\205\010\152
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151\203\366\177\214
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\23\020\121\165\157\126\141\144
\151\163\040\144\151\155\151\154\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\111\233\065\362\316\270\053\073
\133\247\046\360\165\050
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Open Source Used In UCM Cloud Analyzer Service 1.0 4715
# Certificate "QuoVadis Root CA 3 G3"

# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317\022\152\035

END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\056\365\233\002\050\247\333\172\377\325\243\251\356\275\003\240\317\022\152\035

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\067\061\075\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\003\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\144\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\165\162\145\144\040\111\104\040

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\073\077\324\363\321\012\376\050\357\243\356\331\231\257\003\323\217\140\267\362\222\241\261\275\211\211\037\060\035\330\246\056\142\063\256\026\002\167\104\132\347\201\012\074\247\104\056\171\270\077\004\274\134\240\207\341\033\257\121\216\135\354\054\372\370\376\155\360\072\174\252\213\344\147\225\061\215\002\003\300\001\000\012\243\102\060\060\017\006\003\125\035\023\000\010\001\377\004\005\060\030\001\013\377\060\016\006\003\125\035\017\001\001\037\377\004\004\003\002\001\026\060\060\035\305\006\033\125\035\016\004\026\004\024\316\033\112\271\231\125\362\270\333\140\277\251\176\0275\126\265\227\066\247\326\060\015\056\011\052\206\110\206\367\015\001\001\013\005\000\003\022\020\001\010\000\312\245\125\214\343\3310\101\151\150\047\427\165\021\357\074\206\066\157\322\235\306\170\070\035\151\226\242\222\151\056\070\015\423\311\175\004\324\211\245\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110\322\062\146\301\212\300\363\057\072\235\370\030\343\324\221\063\321\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175\257\053\102\321\165\142\343\112\053\002\037\120\113\340\151\1342\226\154\016\104\460\020\104\217\255\005\353\370\171\254\246\033\350\067\064\235\123\311\141\125\242\122\257\112\160\026\206\302\072\310\261\023\160\066\330\317\356\364\012\064\325\133\114\375\007\234\242\227\333\011\162\134\363\115\030\135\016\261\034\015\304\143\276\255\364\024\373\211\135\242\101\016\114\134\310\127\100\032\156\033\252\315\014\216\211\123\123\151\154\360\074\060\257\070\033\157\274\243\276\051\040\047\253\164\377\023\042\170\336\122\7\121\250\063\202\265\124\240\003\356\256\300\117\126\336\067\314\033\177\252\004\047\273\123\167\270\142\333\027\174\234\050\042\023\163\154\317\046\365\212\051\347END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

# Label UTF8 "DigiCert Assured ID Root G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

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\223\121\135\077
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\037\017\017\017
END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\135\003\125\004\006\023\002\125\123\061
\025\060\023\003\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\020\063\003\125\004\030\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Assured ID Root G3"
#
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0ba1.5afa.1:bf54:94:af:cd:24:a0:6c:ec
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\020\063\003\125\004\030\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\071\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\071\154\157\142\141\154\040\122\157\157\164
\040\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\072\361\346\247\021\251\240\273\050\144\261\035\011
\372\345
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\216\060\202\002\166\240\003\002\001\002\002\200\003
\072\361\346\247\021\251\240\273\050\144\261\035\011\372\345
\015\006\011\015\202\061\110\206\367\015\001\001\013\005\000\060\141
\061\103\060\011\016\000\033\125\004\006\023\002\125\123\061
\023\006\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\270\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\071\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "DigiCert Global Root G2"
cka_cert_sha1_hash MULTILINE_OCTAL
cka_cert_md5_hash MULTILINE_OCTAL
cka_issuer MULTILINE_OCTAL
cka_serial_number MULTILINE_OCTAL
cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\103\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\017\154\157\142\141\154\040\122\157\157\164
\040\017\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\103\060\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\017\154\157\142\141\154\040\122\157\157\164
\040\017\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
\105\162

END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\077\060\020\001\305\240\003\301\002\011\002\002\020\005
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\020\061\110\316\075\004\003\003\060\141\061\013\060
\011\006\03\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\023\014\104\151\147\151\103\145\162\164\040\111\015
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\115\147\151\143\145\162\164\056\143\157\155\061\040\060\036
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031\031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
END

# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

END

END

END
# Certificate "COMODO RSA Certification Authority"

# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\006\020\005\013\060\001\110\006\003\125\004\006\023\002\107\101
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\102\010\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\103\020\030\006\003\125\004\012\023\021\103\117\115\117\104\141
\164\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\104\010\135\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171

END
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# Trust for “COMODO RSA Certification Authority”
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “COMODO RSA Certification Authority”
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "USERTrust RSA Certification Authority"
#
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256): 

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\210\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\203\060\023\012\006\003\125\004\010\023\125\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\012
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

END

CKA_ID UTF8 "0"

END
CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\203\060\023\012\006\003\125\004\010\023\125\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\012
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

END
# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015\332\271\255\216
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\210\061\013\060\001\110\060\003\125\004\006\023\002\125\123
\061\023\060\021\060\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\037\424\312\121\250\033\274\144\016\065
\003\055
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CKOBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\210\061\013\060\001\1\060\003\1\250\004\006\023\002\125\123
\061\023\060\021\060\003\1\250\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\060\003\1\250\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\030\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\120\134\213\231\305\132\224\305\322\161\126\336\315\211\200
# Certificate "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\030\040\122\157\157\164
\040\013\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\030\040\122\157\157\164
\040\013\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\036\060\020\202\001\124\240\003\002\001\002\002\021\140
\131\111\340\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\012\006\010\052\206\110\316\075\004\003\003\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\030\040\122\157\157\164\040\103\012\065\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END

Open Source Used In UCM Cloud Analyzer Service 1.0 4745
\101\040\055\040\122\065\061\023\060\021\006\003\125\004\012\023
\012\071\154\157\142\141\154\123\151\147\156\023\060\021\006
\003\125\004\012\023\012\157\154\142\141\154\123\151\147\156
\060\166\060\020\006\007\052\026\110\316\075\002\001\006\003
\004\023\012\107\154\157\131\236\266\325\173\036\022\072\110\131\103
\360\142\061\155\300\172\050\376\032\247\134\263\266\314\227\347
\105\324\130\372\321\167\155\103\242\300\207\145\064\010\120\371\172
\335\033\074\063\241\305\235\115\244\157\101\225\070\017\111\036
\204\353\321\123\156\011\222\207\224\207\014\072\205\112\146\237\235
\131\122\115\227\141\006\206\112\124\3\102\060\010\016\006\003
\125\035\017\001\001\137\77\004\004\003\002\020\1\006\000\017\006\003
\125\035\023\001\001\137\77\004\005\060\000\030\1\001\001\137\77\006\035\006
\003\125\035\016\000\04\026\004\024\075\346\051\110\223\33\5\073\112
\041\014\112\046\336\156\336\322\203\320\23\131\060\012\006\010
\052\206\110\316\075\004\003\003\003\150\000\060\145\002\061\100
\345\151\022\111\155\333\306\061\127\021\011\101\341\227\370\373\375
\232\342\175\022\311\155\174\144\333\313\005\045\213\126\331\1240
\347\136\135\\116\013\203\324\133\166\051\240\01\006\04\1\152\142
\002\060\161\132\226\265\171\134\352\073\341\170\011\205\250\165\222
\073\310\134\375\110\357\015\164\042\250\100\342\156\035\111\136
\130\07\014\27\24\274\14\1\151\361\367\073\341\052\313\371\053\363\146
\220\067
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\035\244\033\035\040\151\377\255\117\335\137\106
\072\033\151\252
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\020\1\014\242\274\010
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\064\060\044\060\004\020\060\003\125\004\013\023\003\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\10\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\102\167\212\161\371
\112\330\154
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Staat der Nederlanden Root CA - G3"
#
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\064\060\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

Open Source Used In UCM Cloud Analyzer Service 1.0 4747
# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3, O=Staat der Nederlanden, C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3, O=Staat der Nederlanden, C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After: Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\353\153\101\121\222\131\340\363\347\205\000\300\075\266\210
\227\311\356\374
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\106\147\007\333\020\057\031\214\065\120\140\321\013\364\067
CKA_ISSUER MULTIILINE_OCTAL
\060\132\061\130\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\140\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\101\040\055\040\107\063
CKA_SERIAL_NUMBER MULTIILINE_OCTAL
\002\004\000\230\024\071
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Staat der Nederlanden EV Root CA"
#
# Issuer: CN=Staat der Nederlanden EV Root CA, O=Staat der Nederlanden, C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA, O=Staat der Nederlanden, C=NL


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\166\152\345\045\204\137\006\312\301\206\071\021\333\130\315\167
\073\054\302\114\017\136\232\343\360\253\076\141\033\120\044\302
\300\364\310\313\360\021\051\266\245\030\002\233\327\143\114\160
\124\107\243\003\103\134\271\135\106\240\015\157\377\131\216\276
\335\237\162\230\313\330\053\337\214\133\316\345\014\106\154\222\262
\101\243\114\241\102\030\025\220\030\275\332\374\272\164\156\377
\301\266\240\144\330\251\137\125\256\237\134\152\166\226\330\163
\147\207\373\115\177\134\356\151\131\121\63\020\373\212\251\137\236
\275\066\070\111\111\207\364\016\243\360\351\207\270\077\247\117
\172\132\216\171\132\242\233\344\273\150\122\204\254\154\351\163\230
\160\125\162\062\371\064\253\053\111\265\315\040\142\344\072\172
\147\143\253\226\334\155\256\227\354\374\237\166\126\210\056\146
\317\133\266\311\244\260\327\005\272\341\047\057\223\273\046\052
\242\223\260\033\363\216\276\035\100\243\271\066\217\076\202\032
\032\136\210\352\212\203\070\131\342\203\106\051\013\343\104\134\341
\125\266\151\220\232\024\157\227\256\201\137\150\357\231\232\276
\265\347\341\177\370\372\203\107\026\114\314\155\010\100\347\213
\170\151\120\202\140\120\077\146\006\212\253\103\204\126\112\017
\040\055\206\016\365\322\333\322\172\221\113\315\245\350\116\361
\136\046\045\001\131\043\240\176\322\366\176\041\127\327\047\274
\025\127\114\244\106\301\340\203\360\141\14\115\357\117\006\031
\342\371\250\364\072\202\241\262\171\103\171\326\255\157\172\047
\220\003\244\352\204\207\077\331\275\331\315\362\137\120\111\034
\356\354\327\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Staat der Nederlanden EV Root CA”
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
```


\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272 END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\110\060\003\112\050\004\006\023\002\116\114\061 \036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040 \144\145\162\040\116\145\145\145\162\154\141\156\144\145\156\061 \051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040 \144\145\162\204\116\145\145\145\162\154\141\156\144\145\156\040 \105\126\040\122\157\157\164\040\103\101 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "IdenTrust Commercial Root CA 1"
#
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\112\061\013\060\011\100\060\003\112\050\004\006\023\002\125\123\061 \022\060\020\006\003\112\050\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\104\7\060\045\006\003\112\050\004\003\023\036\111\144 \145\146\124\162\156\163\164\040\103\157\155\155\145\156\124\162 \143\151 \141\154\040\122\157\157\164\040\103\101\040\061 END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\12\061\013\060\011\100\060\003\112\050\004\006\023\002\125\123\061 \022\060\020\006\003\112\050\004\012\023\011\111\144\145\156\124\162 \165\163\164\061\104\7\060\045\006\003\112\050\004\003\023\036\111\144 \145\146\124\162\156\163\164\040\103\157\155\155\145\156\124\162 \143\151

Open Source Used In UCM Cloud Analyzer Service 1.0 4754
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\161\176\252\112\331\116\311\204\231\140\055\110\336\137
\274\360\072\045

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\263\076\167\163\165\356\240\323\343\176\111\143\111\131\273\307

CKA_ISSUER MULTILINE_OCTAL
\060\112\060\101\130\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\23\011\111\144\145\156\124\162
\165\163\164\061\047\060\045\006\003\125\004\003\023\036\111\144
\145\156\124\162\163\164\040\103\157\155\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\104\040\061

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\012\200\000\000\000\01\005\043\310\04\265\000\000
\000\002

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "IdenTrust Public Sector Root CA 1"
#
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

Open Source Used In UCM Cloud Analyzer Service 1.0  4758
# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352 \155\115\105\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\232\364\153\214\032\144\315\325\272 END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\001\1\006\003\125\004\006\023\002\125\123\061
# Certificate "Entrust Root Certification Authority - G2"

# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.".C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\006\020\060\020\006\003\125\004\012\023\011\111\141\145\156\124\162 \
\165\164\160\061\020\060\050\006\003\125\004\012\023\011\111\141\145\156\124\162 \
\145\156\124\162\165\163\164\040\101\165\142\154\151\143\040\123 \
\145\143\164\157\162\040\122\157\157\164\040\103\101\040\0061 \
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN_BBOOL CK_TRUE
CKA_PRIVATE_BBOOL CK_FALSE
CKA_MODIFIABLE_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\276\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\012\260\060\024\000\06\03\125\004\012\023\015\015\016\014\016\016
\163\164\054\040\111\156\143\056\061\050\060\046\006\000\125\004
\013\023\037\123\145\040\167\016\056\014\015\016\016\016
\163\164\056\156\145\145\057\154\145\147\141\154\055\164\145\162
\155\163\066\010\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\010\05\156\164\162\162\164\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\171\145\144\040\165\163\145\040\157\156\154\151\061\062\060
\060\006\000\125\004\003\023\051\015\156\164\162\165\163\164\040
\122\157\157\164\040\03\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050

END

# Certificate "Entrust Root Certification Authority - EC1"
#
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use
# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,C=US
# Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212
\353\024\265\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\035\111\154\044\073\075\355\230\030\355\274
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\277\061\101\306\061\101\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\151\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\101\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\06\10\171\06\06\06\06\00\00\125\00\04\13\023\06\05\143\051
\040\062\06\06\01\06\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\00\04\00\03\023\052\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\051\000\000\000\000\120\320\221\371
END
Certificate "CFCA EV ROOT"

Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Serial Number: 407555286 (0x184accd6)
Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Not Valid Before: Wed Aug 08 03:07:01 2012
Not Valid After: Mon Dec 31 03:07:01 2029
Fingerprint (SHA-256):

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "CFCA EV ROOT"
#
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After: Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\060\130\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\031\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\013\006\010\010
\040\010\126\040\012\17\117\117\124

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\126\060\130\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\031\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\013\006\010\010
\040\010\126\040\012\17\117\117\124

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\215\060\202\003\165\240\003\002\001\002\002\004\030
\112\314\326\060\150\006\011\052\206\110\206\367\015\001\001\013
\005\000\126\061\130\060\011\006\003\125\004\006\023\002\010
\116\061\160\060\056\006\003\125\004\012\014\047\03\150\151\156
\141\040\106\151\156\141\156\143\151\141\154\040\031\145\162\164
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “CFCA EV ROOT”
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After: Mon Dec 31 03:07:01 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270\071\217\204\203 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060\101\040\105\126\040\122\117\117\124 END

CKA_ISSUER MULTILINE_OCTAL \060\126\060\030\112\314\326\002\004\030\112\314\326 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\004\030\112\314\326 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GB CA"
#
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After: Thu Dec 01 15:10:31 2039

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
\132\134\171\132\126\130\132\134\114\123\131\134\123\110\105\113\134\117\117\125
\172\174\177\172\171\112\101\131\132\127\132\135\253\175\101\121\112\106\106\135\342\244\172\170\103\127
\134\115\120\117\130\135\253\175\101\121\112\106\106\135
\117\111\116\137\130\135\253\175\101
\151\126\120\105\103\134\104\115\122\157
\126\253\122\63\100\132\124\103\135\122\237\132\136\151\126\156\122\157
\161\111\126\137\175\125\60\117\124\105\134\115\130\135\253\161\126\152\173\170\103\127
\116\176\115\120\117\130\135\253\175\101\121\112\106\106\135
\103\121\132\127\132\126\105\116\121\122\157
\123\135\110\121\130\135\253\175\101\121\112\106\106\135
\126\176\115\120\117\130\135\253\175\101
\103\133\131\135\124\70\053\127\171\131\43\106\152\122\157
\126\355\341\115\125\55\112\120\170\110\127\234\141\134\252\132\123\113\154
\125\253\226\300\264\113\242\130\135\122\237\136\162\156\100\116\133
\150\361\145\115\316\174\100\133\337\123\145\251\124\353\136\261\122\270
\160\025\106\133\230\134\232\127\171\124\256\136\130\175\122\157\332
\126\046\142\324\333\321\110\115\034\136\042\302\232\142\034
\106\025\114\115\141\025\124\032\220\203\336\353\036\137\121\167\307
\131\131\167\075\103\131\124\123\232\130\132\044\073\337\033\1100\226\176
\065\125\201\137\116\161\127\210\1023
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):
# Certificate "SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After: Fri Oct 19 07:43:30 2035

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
# Trust for "SZAFIR ROOT CA2"

**# Issuer:** CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL  
**# Subject:** CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL  
**# Not Valid Before:** Mon Oct 19 07:43:30 2015  
**# Not Valid After:** Fri Oct 19 07:43:30 2035  

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  

END

**CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE**  
**CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE**  
**CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE**
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\336
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\144\301\211\260\044\261\214\261\007\176\211\236\121\236\231
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\003\125\004\006\023\022\120\114\061
\050\060\046\006\003\125\004\012\140\303\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\060\026\006\003\125
\004\003\014\017\123\132\101\106\111\122\040\122\171\117\124\040
\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\135\007\354\125\001\353\055\334\344\267\343\266\137\001
\353\055\334\344\267\343\266
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\060\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145

Open Source Used In UCM Cloud Analyzer Service 1.0  4777
\051\361\043\030\162\131\266\025\312\030\214\146\046\034\167\054\046
\166\065\213\050\024\151\124\031\073\036\045\033\035\205\020\164\311
\220\003\126\221\143\275\727\272\107\324\022\227\021\042\334\242\241
\224\154\347\267\224\113\272\055\244\332\063\213\114\246\104\377
\132\074\306\035\144\330\265\061\134\44\246\074\172\250\127\013\333
\355\141\032\133\366\131\166\167\143\244\207\157\114\121\070\326
\344\137\307\237\266\201\052\344\205\110\171\130\136\073\370\333
\002\202\147\031\071\133\303\164\113\075\066\036\371\051\223\210
\150\133\250\014\030\041\136\247\350\201\101\054\350\022\306\066\264
\067\262\312\260\033\046\172\232\045\037\232\232\200\361\130\052
\077\373\243\232\376\163\062\161\130\236\306\162\234\121\150\047
\361\144\017\264\304\114\245\141\223\370\227\020\007\052\060\045
\125\127\131\161\127\035\150\314\055\176\365\340\176\017\202\250
\157\266\272\154\203\103\167\315\212\222\027\241\236\133\170\026
\075\105\342\063\162\335\341\146\312\231\132\331\130\046\375\015
\150\004\106\256\266\331\123\121\276\031\276\261\306\362\031\343
\134\002\312\054\330\157\112\007\331\311\165\332\100\165\362\304
\247\031\157\236\102\020\230\165\346\225\213\140\274\355\305\022
\327\212\316\325\230\134\126\226\003\030\536\167\006\065\377\317
\343\356\077\023\141\356\333\332\055\205\360\315\256\235\262\030
\011\105\303\122\241\162\027\374\107\266\240\013\054\361\304\336
\103\150\010\152\137\073\360\166\143\373\314\006\054\246\306\342
\016\265\271\276\044\217
END
CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\065\327\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\151\145\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
# Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\076\000\150\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\012\006\003\125\004\012\023\073\101\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL UTF8</td>
<td>&quot;Hellenic Academic and Research Institutions RootCA 2015&quot;</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After: Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"

# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\000\000

END
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM, O=FNMT-RCM, C=ES
# Subject: OU=AC RAIZ FNMT-RCM, O=FNMT-RCM, C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\016\017\016\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\013\060\027\016\003\125\004\013\014\020\101\103\040
\112\111\111\132\040\061\116\115\124\055\122\103\115
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\016\017\016\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\013\060\027\016\003\125\004\013\014\020\101\103\040
\112\111\111\132\040\061\116\115\124\055\122\103\115
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
END

CKA_VALUE MULTILINE_OCTAL
\060\022\005\203\060\202\003\153\240\003\002\001\002\002\017\135
\223\215\060\147\066\310\006\035\032\307\124\204\151\100\070\001\15
\006\011\105\206\110\206\367\015\001\001\013\005\000\060\073\061
\013\060\011\006\003\125\004\006\023\002\105\123\061\021\060\017
\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061
\031\060\027\016\003\125\004\013\014\020\101\103\040\122\101\111
\132\040\106\116\115\124\055\122\103\115\060\036\027\015\060\070
\061\060\062\071\061\065\065\071\065\066\132\027\15\063\060\060
\061\060\060\106\060\060\060\060\060\060\060\132\060\073\061\103\060\011
# Trust for "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "ac raiz fnmt-rcm"
cka_cert_sha1_hash multiline_octal
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231
\054\114\054\040
end
ccka_cert_md5_hash multiline_octal
\342\011\004\264\323\275\321\240\024\375\032\304\225\142\031\342\250\232\133\102\231
\end
cckaIssuer multiline_octal
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040
\122\101\111\132\040\106\116\115\124\055\122\103\115
\end
ccka_serial_number multiline_octal
\002\017\135\223\215\060\147\066\031\006\035\032\307\124\204\151
\007
end
ccka_trust_server_auth ck_trust ckT_NSS_trusted_delegator
ccka_email_protection ck_trust ckT_NSS_must_verify_trust
ccka_code_signing ck_trust ckT_NSS_must_verify_trust
ccka_step_up_approved ck_bbool ck_false
#
# Certificate "Amazon Root CA 1"
#
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
ccka_class ck_object_class cko_certificate
ccka_token ck_bbool ck_true
ccka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
cka_label utf8 "Amazon Root CA 1"
ccka_certificate_type ck_certificate_type ckc_x_509
ccka_subject multiline_octal
\060\071\061\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\115\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\115\141\172\157
\156\040\122\157\157\164\040\03\101\040\061
end
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\345\376\255\057\030\306\210\150\060\374\310\346

END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\101\036\060\011\100\06\003\125\004\006\023\002\125\123\061
\017\060\015\006\000\03\125\004\012\023\006\010\155\141\172\157\156
\061\031\060\027\000\000\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\134\2\360\170\212\103
\346\226\066\131\132
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 2"
#
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\134\2\360\170\212\103
\346\226\066\131\132
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\101\060\202\003\051\124\000\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\060\15\006\011\052\206\110\206\367\015\001\001\014\005

Open Source Used In UCM Cloud Analyzer Service 1.0 4798
\122\060\015\006\011\052\206\110\206\367\015\000\010\014\000\5000
\003\202\000\201\000\052\252\0250\200\217\0161\1670\243\340\242\324\315
\346\365\230\172\073\342\200\03\260\227\016\222\274\113\225\0366
\054\214\162\152\027\174\171\367\113\161\171\045\207\131
\317\060\341\155\020\262\023\132\155\203\236\152\346\002\237\240
\005\501\153\054\344\107\153\307\152\337\266\375\167\062\162\234\5030
\372\011\364\240\223\205\041\353\322\214\165\051\166\145\220\014\003
\171\067\101\314\143\255\170\203\011\206\150\204\312\377\371\1117
\046\232\222\171\147\315\113\303\237\142\027\133\363\251\1022
\223\223\153\247\350\057\123\222\223\204\140\130\260\040\202\121\030
\133\025\121\142\131\143\266\255\256\264\336\232\373\046\367\000\047
\300\135\125\067\164\231\131\120\177\343\131\056\043\434\054\045
\356\354\114\062\167\264\237\032\351\1\131\313\040\305\332\375\034
\207\026\306\103\335\032\247\046\232\015\161\362\251\101\067\123
\342\016\073\047\375\340\106\362\211\126\734\102\266\313\050\046
\156\331\245\311\072\310\101\023\140\367\120\214\025\256\262\155
\032\025\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\022\070\047\226\066\004\327\0\353\242\200\143\251\233\361\1345
\272\264\174\024\260\116\311\126\037\164\137\070\366\121\352\233
\372\054\2420\213\234\251\055\047\032\015\062\257\262\161\161\015
\300\130\106\262\151\006\313\123\133\263\376\153\011\135\011\0176
\175\114\017\174\162\171\172\131\135\136\112\016\254\233\251\230
\163\117\174\264\364\364\214\271\270\007\014\262\164\134\270\037\157
\210\241\220\202\247\364\225\237\177\147\072\364\032\025\142\077\036\267
\237\267\075\261\051\257\147\241\022\362\130\002\031\132\003\060
\003\270\032\111\366\132\247\257\027\039\164\137\070\366\121\352\233
\361\126\337\344\034\321\237\145\002\006\352\134\342\262\023\263\204
\357\242\245\134\214\167\051\124\150\300\153\256\100\322\250\0264
\352\315\360\125\113\070\234\031\232\033\050\124\270\021\122\0357
\312\165\201\076\036\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\242\332\012\126\377\365\027\144\154\357\250\042\045
\112\223\266\370\000\027\332\130\176\135\356\305\053\260\321\321
\137\041\020\037\371\136\327\202\122\047\007\130\361\326\073\232
\340\373\011\140\154

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Amazon Root CA 2”
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
# Certificate "Amazon Root CA 3"

# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\056\040\122\157\157\164\040\103\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\037\133\046\273\212\067
END

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\123\104\226\265\170\317\107\113\032
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\136\046\277\146
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\156\040\122\157\157\164\040\103\101\040\062
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\123\104\226\265\170\317\107\113\032
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\342\172\136\046\277\146
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156

Open Source Used In UCM Cloud Analyzer Service 1.0 4801
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

# Certificate "Amazon Root CA 4"
#
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\001\010\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\155\141\172\157\156
\061\013\060\027\006\003\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\010\010\040\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\010\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\155\141\172\157\156
\061\013\060\027\006\003\125\004\003\023\020\010\155\141\172\157
\156\040\122\157\157\164\040\010\010\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\010\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\136\262\206\020\000\170\240\003\002\000\010\002\000\230\006
\154\237\327\301\127\302\111\140\051\110\345\161\173\173\054\310\032
\301\016\060\010\006\010\052\206\110\316\075\004\003\003\060\071
\061\013\060\011\010\006\003\125\004\040\023\002\125\123\061\017\060
\015\060\003\125\004\012\023\006\010\155\141\172\157\156\061\031
\060\027\000\003\125\004\003\023\020\010\155\141\172\157\156\040
\122\157\157\164\040\010\31\010\040\064\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\060\060\060\060\132\027\015\064\060\060\060\065
\026\060\060\060\060\060\060\060\060\060\060\060\060\071\061\013\060\011\006
\003\125\004\040\060\023\002\125\123\061\017\060\015\006\003\125\004
\012\023\006\010\155\141\172\157\156\061\031\060\027\000\060\033\125
\004\003\023\020\010\155\141\172\157\156\040\122\157\157\164\040
\103\010\004\064\060\166\060\020\006\007\052\206\110\316\075\002
\001\006\005\053\201\004\000\042\000\142\000\004\322\253\212\067
\117\243\123\151\376\301\212\173\133\250\173\106\113\143\260\142
\136\605\33\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\156\135\352\075\245\311\201\125\243\133\004\230\105\135\026
\333\375\350\020\155\343\234\340\343\275\137\204\142\363\160\144
\063\240\313\044\057\160\272\210\024\105\242\165\370\201\125\61\42
\006\034\201\133\307\115\055\126\063\372\056\134\243\102\060\100
\060\017\060\060\060\132\055\023\001\010\037\77\004\005\060\003\001\001
\037\77\060\16\006\003\125\035\017\001\000\137\77\004\004\003\002\001
\206\060\035\000\003\125\035\016\004\004\024\323\354\307\072
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\345\201
\060\012\006\010\052\206\110\316\075\004\003\003\003\150\000\006
\145\002\060\072\213\041\361\275\176\021\125\320\357\130\226\057
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\345\161\173\173\054\310\032\301\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\375\211\107\264\315
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"

# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6, OU=Symantec Trust Network, O=Symantec Corporation, C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6, OU=Symantec Trust Network, O=Symantec Corporation, C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\035\060\030\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156
\145\143\040\012\162\165\163\164\040\116\156\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\012\162\151\155\141\162\171\104\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\035\060\030\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156
\145\143\040\012\162\165\163\164\040\116\156\167\157\162\153
\061\105\060\103\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\012\162\151\155\141\162\171\104\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230

END

CKA_VALUE MULTILINE_OCTAL
# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\104\103\145\162\164\151
\146\145\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#  
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#  
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\145\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END
\127\145\230\051\244\117\311\134\217\017\064\322\370\033\250\023
\142\252\270\036\120\147\170\260\261\142\240\071\251\025\172\256
\355\322\242\300\067\220\105\030\046\134\350\015\074\266\154
\111\077\301\340\033\341\113\266\024\031\103\246\323\226\341\132
\011\343\031\046\034\371\037\145\113\371\032\103\034\000\203\326
\320\252\11\124\324\142\333\461\142\070\272\21\002\241\033\155\371\061
\370\126\026\331\070\002\22\137\353\154\335\273\071\116\231\141
\060\147\105\361\324\360\215\030\333\376\362\070\007\041\175\000
\136\126\104\263\344\140\275\221\053\234\253\133\004\162\017\262
\050\331\162\253\005\040\102\045\251\133\003\152\040\020\314\061
\360\053\332\065\054\320\373\232\227\116\360\202\113\053\330\137
\066\243\10\130\055\257\143\015\035\045\177\241\156\134\142\241\125
\050\076\241\137\340\340\040\370\001\057\272\21\25\232\021\260\031\322
\310\120\171\153\016\152\005\327\252\004\066\262\243\362\32\141
\167\247\167\234\345\036\334\351\337\152\301\145\135\002\003\001
\000\000\124\310\206\010\006\001\160\006\003\125\035\017\001\100\137
\004\004\000\003\002\000\001\006\006\000\170\006\000\125\035\023\001\000\137
\004\005\060\003\001\013\377\060\035\006\003\125\035\016\004\026
\004\024\207\214\040\022\350\102\230\112\321\132\600\006\112\220\064
\104\337\034\115\277\260\060\150\060\011\052\206\110\206\367\015
\001\010\130\050\000\003\320\001\001\000\020\121\162\245\146\226
\267\041\142\256\035\157\043\132\137\333\201\035\012\245\170\301
\151\175\364\074\327\371\134\153\160\162\032\374\132\227\115\000
\200\021\10\202\212\303\161\151\163\052\123\054\355\215\013
\322\162\124\365\175\324\134\103\127\351\136\256\245\002\013\366
\166\053\201\127\335\175\332\164\060\037\51\141\073\66\340\026\156
\246\264\012\110\346\347\165\007\017\050\103\101\316\171\173\164\062
\154\305\137\231\325\037\113\372\233\377\155\054\074\015\124\200\016
\360\210\013\200\031\173\061\150\242\270\035\160\331\166\214\137\435
\245\311\137\255\035\317\231\045\127\321\142\053\130\026\153\275
\111\151\245\243\214\151\171\045\256\270\114\154\213\100\146\111
\026\077\317\002\032\335\341\154\153\007\141\152\166\025\051\231
\177\033\335\210\000\317\265\217\163\305\246\226\043\204\246
\050\026\040\063\152\001\056\127\163\045\266\136\277\217\346\035
\141\250\100\051\147\035\207\233\035\177\233\237\231\135\061\132
\124\276\142\273\071\254\150\022\110\221\040\245\313\261\135\376
\157\374\132\344\020\125\131\257\061\251
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6, OU=Symantec Trust Network, O=Symantec Corporation, C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

# Certificate "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013, O=D-Trust GmbH, C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Open Source Used In UCM Cloud Analyzer Service 1.0

- **Not Valid After**: Wed Sep 20 08:25:51 2028

- **Fingerprint (SHA-256)**:


- **CKA_CLASS**: CK_OBJECT_CLASS CKO_CERTIFICATE
- **CK_TOKEN**: CK_BBOOL CK_TRUE
- **CKA_PRIVATE**: CK_BBOOL CK_FALSE
- **CKA_MODIFIABLE**: CK_BBOOL CK_FALSE
- **CKA_LABEL**: UTF8 "D-TRUST Root CA 3 2013"
- **CKA_CERTIFICATE_TYPE**: CK_CERTIFICATE_TYPE CKC_X_509
- **CKA_SUBJECT**: MULTILINE_OCTAL
- **CKA_ID**: UTF8 "0"
- **CKA_ISSUER**: MULTILINE_OCTAL
- **CKA_SERIAL_NUMBER**: MULTILINE_OCTAL
- **CKA_VALUE**: MULTILINE_OCTAL

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**END**

**CKA_CLASS**: CK_OBJECT_CLASS CKO_CERTIFICATE
- **CKA_TOKEN**: CK_BBOOL CK_TRUE
- **CKA_PRIVATE**: CK_BBOOL CK_FALSE
- **CKA_MODIFIABLE**: CK_BBOOL CK_FALSE
- **CKA_LABEL**: UTF8 "D-TRUST Root CA 3 2013"
- **CKA_CERTIFICATE_TYPE**: CK_CERTIFICATE_TYPE CKC_X_509
- **CKA_SUBJECT**: MULTILINE_OCTAL
- **CKA_ID**: UTF8 "0"
- **CKA_ISSUER**: MULTILINE_OCTAL
- **CKA_SERIAL_NUMBER**: MULTILINE_OCTAL
- **CKA_VALUE**: MULTILINE_OCTAL

---

**END**
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0x2f10)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170
\337\157\357\227

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After: Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
"06002013322061013060001100600311250040060230021241122
0610306002606000312500400702301711071145114211721145
04005504011131571431411415154151061102060100000003
1250040120230711241651622153115117111450401021511154
1511155163145154040166145040124145153156157154157
152121513040116214116316415116215154140401131165
16216515516504005040124125102111124101113061055
060053000000312500401302304411311411551650401231145
16216411511461151153114116311711571560401151451621153
1451721514004055040113141155165040123115061066060
064006003125004003023055124125102111124101113040
11314115516504012311504012311231140401131157153040
123145162164151146115115311411631151040550401231165
16216515514004061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
"0602013322061013060001100600311250040060230021241122
0610306002606000312500400702301711071145114211721145
04005504011131571431411415154151061102060100000003
1250040120230711241651622153115117111450401021511154
1511155163145154040166145040124145153156157154157
152121513040116214116316415116215154140401131165
16216515516504005040124125102111124101113061055
0604006003125004003023055124125102111124101113040
11314115516504012311504012311231140401131157153040
123145162164151146115115311411631151040550401231165
16216515514004061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
"0101"
### # Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

- **Issuer:** CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
- **Serial Number:** 1 (0x1)
- **Subject:** CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
- **Not Valid Before:** Mon Nov 25 08:25:55 2013
- **Not Valid After:** Sun Oct 25 08:25:55 2043

### CKA_CLASSES
- CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

### CKA_TOKEN
- CKA_BBOOL CK_TRUE

### CKA_PRIVATE
- CKA_BBOOL CK_FALSE

### CKA_MODIFIABLE
- CKA_BBOOL CK_FALSE

### CKA_LABEL
- UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

### CKA_CERT_SHA1_HASH
- MULTILINE_OCTAL

### END
# Certificate "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number: 7d:09:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\030\060\026\060\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\106\102\060\100\006\003
\125\004\101\230\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\140\113\165
\162\165\155\165\040\155\040\102\124\125\102\111\124\101\113\061\155
\060\053\006\003\125\004\101\13\023\144\113\141\145\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\140\155\040\113\141\145\165\040\123\115\061\155\156\066\155
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\113
\113\141\155\165\040\123\115\040\123\113\140\113\147\157\153\140
\122\153\161\164\151\146\151\153\147\153\163\151\140\105\040\123\155
\162\165\155\040\1061

END
# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".,C=CN
# Serial Number: 7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.".,C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After: Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_B_BOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_ISSUER CK_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "TrustCor RootCert CA-1"

# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number: 00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\032\023\262\262\254\153\067\005\105
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\011\006\003\125\004\006\023\002\120\101
\061\017\060\015\060\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\032\233\354\161\163\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor RootCert CA-2"
#
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\107\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\002\22\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\045\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\107\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\002\22\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\045\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END

CKA_VALUE MULTILINE_OCTAL
\060\202\006\057\060\02\02\040\227\240\003\002\001\002\002\10\0045
\241\337\312\063\313\131\002\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\060\201\124\061\130\060\11\006\003\125
\004\006\023\02\02\10\10\011\017\060\015\006\003\125\004\010\0014
\006\120\141\156\141\155\141\061\024\060\022\006\003\125\004\007
\014\031\120\141\156\141\155\141\040\103\151\164\171\061\044\060
\040\032\003\125\004\012\014\033\124\162\165\163\164\103\157\162
\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122
\056\114\056\061\047\060\045\006\003\125\004\013\104\036\124\162
\165\163\164\103\157\162\040\123\161\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
OPEN SOURCE USED IN UCM CLOUD ANALYZER SERVICE 1.0

4829

\006\003\125\035\016\004\026\000\004\024\331\137\60\041\100\156\224\236
\274\233\075\234\175\230\040\031\345\214\060\014\262\206\060\037\006
\003\125\035\043\003\030\060\026\200\024\331\137\60\041\100\156\224
\236\274\233\075\234\175\230\040\031\345\214\060\014\262\206\060\017
\006\003\125\035\023\001\000\137\70\041\050\030\003\001\000\137\70\060
\016\006\003\125\035\017\001\000\137\70\041\000\004\003\002\000\126\060\060
\015\006\011\010\262\110\110\026\206\137\015\001\010\030\000\000\032\020
\004\001\000\026\215\010\031\305\206\262\212\230\022\232\033
\331\175\134\115\160\030\245\371\125\345\243\211\211\335\011\372
\354\335\135\135\222\227\333\260\106\102\233\323\142\252\225\225\236
\061\117\024\111\130\200\12\252\013\356\067\043\307\120\112\264
\365\176\236\343\173\367\344\131\102\062\205\111\014\131\377\111
\014\233\036\060\043\375\156\156\226\212\171\003\266\157\333\030\1313
\375\137\145\024\067\374\170\070\536\363\141\026\130\344\265\155\015
\013\004\033\077\120\055\177\263\200\017\230\026\200\201\40\370\212
\037\373\051\302\036\371\072\001\032\151\277\322\142\300\124\127
\010\217\341\107\110\167\111\325\131\043\032\032\10\361\335\133\117
\170\03\273\347\341\063\055\374\356\101\372\040\262\276\313\367\070
\224\300\131\320\025\017\273\355\054\163\025\035\376\022\166\032
\144\177\133\015\063\011\100\070\63\173\006\077\021\244\134\160\074
\205\009\317\043\022\025\020\226\19\176\372\033\034\105\021\150\147\020
\147\245\122\055\360\030\423\121\171\177\177\321\153\342\265\107\326
\033\132\020\052\231\115\224\233\017\131\215\356\000\132\107\035\021
\003\254\101\030\025\077\027\167\150\014\072\217\312\137\334\003\301
\242\011\131\035\043\375\200\136\310\140\010\020\001\033\032\213\132\273
\017\246\026\72\074\272\204\035\0136\154\033\224\144\332\324\103\376
\123\213\113\362\054\171\026\020\324\223\013\120\217\241\330\026
\024\106\221\107\233\050\044\357\127\212\116\134\010\232\243\252\367
\111\354\043\73\050\100\362\63\246\211\042\162\234\365\015\063\264
\130\243\060\073\333\052\421\52\124\223\276\032\115\563\223\224\367
\134\020\013\077\240\040\013\44\064\003\104\305\332\255\274\012\301
\002\137\036\345\242\331\136\321\166\333\030\114\360\235\345\141\027
\127\024\062\124\014\002\051\223\036\222\206\366\177\357\347\222
\005\010\131\335\231\010\050\056\056\372\234\000\122\332\035\146\051
\134\247\227\104\044\016\050\020\123\306\355\366\157\144\346\101
\130\325\053\731\046\045\29\101\000\226\075\112\056\302\226
\230\017\111\161\223\227\267\333\037\222\062\310\377\101\121\156
\326\354\011

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Serial Number: 25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After: Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\241\337\312\063\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor ECA-1"
#
# Issuer: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama, ST=Panama, C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:9F:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\234\061\013\060\001\110\006\003\125\004\006\023\002\120\010\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124\162\165\163\163\164\103\157\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061\END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\134\061\013\060\001\110\006\003\125\004\006\023\002\120\010\061\017\060\015\006\003\125\009\010\014\006\120\141\156\141\155\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124\162\165\163\163\164\103\157\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061\END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\204\003\125\004\006\023\002\120\010\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124\162\165\163\163\164\103\157\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061\END
CKA_VALUE MULTILINE_OCTAL
\060\202\134\061\013\060\001\110\006\003\125\004\006\023\002\120\010\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012\014\033\124\162\165\163\163\164\103\157\162\040\123\171\163\164\145\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014\016\124\162\165\163\164\103\157\162\040\105\103\101\055\061\END

Open Source Used In UCM Cloud Analyzer Service 1.0 4831
# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\125\004\003\014
\1016\124\162\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\054\137\034\142\320\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\160\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156

Open Source Used In UCM Cloud Analyzer Service 1.0 4834
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

\241\206\042\266\145\047\016\354\266\237\102\140\344\147\302\265
\332\101\013\034\323\213\141\033\274\372\037\221\053\327\104\007
\136\272\051\254\331\035\355\016\354\266\237\123\110\132\353\200\361\1050\130
\041\151\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
END
# Certificate "SSL.com Root Certification Authority ECC"

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\215\060\020\002\204\240\003\002\001\002\002\010\165
\346\337\313\301\150\133\250\060\012\006\010\052\206\110\131\6075
\004\003\002\060\174\061\103\060\011\006\003\125\004\006\023\002
\125\123\061\016\060\014\006\003\125\004\010\014\005\124\145\170
\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165

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\163\164\157\156\061\030\060\026\006\003\125\004\012\014\017\123
\123\114\040\103\157\162\161\157\161\164\151\157\156\061\061
\060\057\006\003\125\004\014\015\123\123\140\057\061\060\060\026
\003\125\004\003\125\004\012\014\017\123\114\040\103\157\162
\160\157\162\141\164\151\157\156\061\060\060\060\060\060\060
\063\162\027\015\064\061\060\062\061\016\010\070\061\064\060
\132\060\174\061\013\100\060\011\006\006\031\125\004\006\023\002\125\123
\061\166\060\014\060\003\125\004\010\014\005\124\145\170\141\116
\061\102\060\016\060\006\031\125\004\004\032\014\017\123\123\114
\104\010\13\157\162\161\160\157\162\141\164\151\157\156\061\061\060
\057\006\003\125\004\003\125\004\014\050\123\123\114\040\103\157
\156\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\151\164\171\040\105\103\103\060\166\060
\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\004\024\003\142\000\042\105\156\251\120\304\246\043\066
\137\070\215\027\133\122\042\144\077\334\172\216\035\140\101\263
\124\216\044\272\216\111\127\004\033\107\226\130\253\055\225\310
\355\236\010\065\310\047\353\211\124\123\130\353\142\212\376\360
\133\010\153\061\122\143\101\073\111\135\354\345\266\215\031\323
\064\007\334\273\060\061\177\032\105\225\354\131\177\250\043\340
\011\351\201\372\363\107\323\243\143\060\014\060\035\006\031\012
\035\016\004\024\206\002\204\202\203\201\163\060\347\065\004\323\216
\002\222\373\345\244\321\130\044\135\031\150\060\017\060\031\012
\023\001\100\137\004\050\060\003\001\001\013\770\060\037\060\031\012
\035\043\004\030\060\026\200\024\022\021\205\163\060\347\065\004
\322\216\002\222\373\345\244\321\130\044\135\031\150\060\016\060
\003
\125\035\017\001\010\137\770\040\004\030\002\016\020\060\012\020
\010\052\220\211\013\016\075\004\003\002\031\147\000\060\144\002\060
\157
\347\353\131\010\244\140\317\141\260\226\173\355\005\371\057\023
\221\334\355\345\374\120\153\021\106\160\166\034\041\000\142\273
\276\303\347\353\131\072\231\371\150\133\135\162\076\304\252\002
\060\037\272\272\013\342\060\044\137\174\155\200\125\012\231\076
\200\015\063\345\146\243\263\243\273\245\325\213\217\011\054\246
\135\176\342\360\007\100\150\155\322\174\151\156\137\337\345\152
\145
END

CKA_NSS_Mozilla_CA_Policy CK_Bool CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK.Bool CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_Bool CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
Open Source Used In UCM Cloud Analyzer Service 1.0

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\303\031\174\071\044\346\124\257\033\304\253\046\027\121\072\216
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\056\332\344\071\177\234\217\067\321\160\237\046\027\121\072\216
END

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\060\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\103\009\060\002\260\006\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\040\105\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority RSA R2"
#
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL
# Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After: Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
\112\155\307\136\365\127\371\132\125\034\022\276\107\017\066\035
\337\152\267\333\165\302\10\045\177\271\13\161\143\370\150\055\0125
\004\321\362\15\256\024\317\274\074\136\037\170\347\245\20\0040
\160\260\004\035\025\267\367\162\247\336\042\015\275\063\045\106\014
\144\222\046\343\076\056\1\43\226\332\233\214\075\370\030\011\327
\003\141\175\206\203\340\121\004\071\121\10\327\377\222\325\014
\357\332\206\237\231\327\353\267\257\150\042\071\046\224\272\150
\267\277\203\323\335\21\217\247\075\142\147\256\045\345\162\350\034
\344\354\256\022\236\66\11\030\042\273\351\126\010\363\070\124\263
\375\267\150\310\332\306\217\121\074\262\373\221\334\034\347\233
\235\341\267\015\162\217\342\244\304\251\170\371\353\024\254\306
\103\005\302\145\071\020\002\303\202\262\235\005\276\145\535
\226\137\145\164\074\373\011\065\056\173\234\023\375\030\171\135
\307\155\201\072\212\260\177\314\073\341\257\002\057\042\254\106\012
106\074\240\034\114\326\104\264\136\056\134\025\146\011\134\046
051\376\306\122\141\127\261\163\377\303\014\234\345\154\152\224
077\024\312\000\026\225\204\363\131\251\254\137\114\141\223\155
321\017\341\022\425\014\042\246\147\147\104\056\271\332\322\12
101\263\146\013\132\373\175\043\245\362\032\260\377\336\233\203
224\240\362\321\077\337\222\267\221\257\005\071\345\037\204\154\261
315\142\022\033\202\033\343\045\316\066\274\157\167\166\261\020
303\367\005\032\300\032\265\164\142\110\027\167\222\151\220\141
034\336\225\200\164\124\217\030\034\303\363\003\320\277\244\103
165\206\123\030\172\012\056\011\030\406\66\237\221\375\202\212\042
113\321\016\120\045\335\313\003\014\027\311\203\000\010\116\065
116\212\123\355\360\002\224\146\054\104\177\313\225\047\226\027
255\011\060\324\266\161\102\217\156\213\027\366\034\011\324\055\073
230\245\163\323\124\023\331\140\363\365\113\146\117\372\361\356
040\022\215\264\254\127\261\105\143\241\254\166\251\130\237
END
CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\016\060\014\006\003\125\004\016\014\005\124\145\170\141\163
\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\061\030\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\157\162\160\157\162\141\164\151\157\156\061\067\060\065
\006\003\125\004\003\014\056\123\123\114\056\143\157\155\040\105
\126\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141
\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122
\123\101\040\122\126\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\126\266\051\315\064\274\170\366
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority ECC"
#
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164

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Open Source Used In UCM Cloud Analyzer Service 1.0  4844
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
131\123\124\145\203\102\001\124\300\316\102\271\132\174\362\220
END
CKA_ISSUER MULTILINE_OCTAL
06\01\77\06\01\31\06\00\03\125\00\04\06\02\33\02\25\12\30\61
01\06\06\01\04\06\00\03\125\00\04\01\01\04\05\12\45\17\01\14\16\30\61
02\00\60\01\6\00\06\00\03\125\00\04\07\01\04\07\11\10\15\17\16\5\16\3\16\4\157
15\6\06\1\03\0\6\0\2\6\0\6\0\0\3\125\00\04\01\01\17\12\3\123\114\040
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\312\021\234\037\335\325\237\201\002
\143\247\373\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\324\042\144\071\036\014\067\102\352\321\306\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122\157\151\147\156\040\103\101\040
\055\040\122\066\061\023\030\060\021\006\003\125\004\012\023\012\017
\154\157\142\141\154\123\151\147\157\164\040\103\101\040
\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\034\061\063\030\025\145\110\346\377\105\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After: Fri May 09 09:58:33 2042
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;OISTE WISEKey Global Root GC CA&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>&quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

**Open Source Used In UCM Cloud Analyzer Service 1.0 4851**
# Trust for "OISTE WiSeKey Global Root GC CA"
# Issuer: CN=OISTE WiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
# Subject: CN=OISTE WiSeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WiSeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In UCM Cloud Analyzer Service 1.0 4854
```plaintext
\073\244\064\211\022\057\107\305\347\251\227\151\374\246
\167\147\265\337\173\361\172\145\253\441\141\26\145\002\003\001
\000\000\012\243\010\026\060\100\060\016\060\003\125\035\017\001\001\377
\004\004\003\000\002\000\001\006\000\017\000\006\003\125\035\023\000\001\377
\004\005\060\003\000\001\377\060\003\355\006\003\125\035\016\004\026
\004\024\021\030\041\014\31\136\55\340\060\377\245\014\010\137\214\025
\147\041\164\000\133\377\060\015\006\001\105\220\061\110\026\367\015
\001\001\010\130\005\000\003\202\000\202\000\002\000\000\234\145\042\365\216\053
\255\104\344\033\313\377\271\150\346\303\200\110\075\004\173\372\043
\057\172\355\066\332\262\236\165\155\366\346\236\345\313\71\217\313
\067\062\241\130\145\266\256\070\075\056\353\306\274\073\266\004
\320\274\37\111\113\65\233\367\205\030\066\266\313\274\370\310\071
\325\344\137\007\275\025\124\227\164\312\312\355\117\272\272\144
\166\237\201\270\204\015\011\114\215\157\242\353\261\314\321\303
\224\332\104\302\346\324\352\030\350\242\037\070\052\272\327\345
\326\251\135\353\357\166\230\215\200\016\315\033\372\003\267\216
\200\301\016\047\077\122\373\224\242\312\136\145\311\326\204\332
\271\065\161\63\046\300\117\167\346\201\047\322\167\073\232\024
\157\171\364\366\302\341\323\224\272\320\127\121\275\047\005\015
\301\175\310\022\060\035\157\215\020\053\010\235\324\322\277\200
\105\024\232\210\104\332\060\352\264\247\343\356\357\133\202\325
\076\326\255\170\222\333\134\074\363\330\255\372\270\015\177\304
\066\050\266\002\025\212\124\054\234\260\027\163\216\320\067\243
\024\074\230\225\000\014\051\005\513\326\311\111\126\111\373\073\343
\313\317\047\145\216\065\027\267\127\310\060\331\101\133\271\024
\266\350\302\017\224\061\124\147\222\320\314\152\353\265\341\047\365
\020\025\000\135\021\602\021\432\350\210\134\265\177\106\227\300\233
\020\146\070\032\066\106\137\042\150\075\337\331\130\023\075\253
\123\006\254\242\074\206\006\145\157\261\176\261\051\104\232\243
\272\111\151\050\151\173\327\345\137\255\004\206\144\157\032\240
\014\305\010\142\316\200\243\320\203\354\150\356\276\063\307\027
\133\177\200\034\114\114\241\\246\024\123\030\073\270\011\135\024
\201\127\203\034\331\242\127\066\376\333\057\174\107\241\072\063\310
\371\110\073\014\117\261\312\002\211\004\226\050\150\035\113\270
\046\211\273\326\063\057\120\325\376\232\211\272\030\062\222\124
\306\113\334\025\357\116\364\015\042\233\366\332\342\101\041\262
\142\041\252\206\010\262\056\144\323\137\103\343\176\022\147\105
\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
\037\055\160\264\247\000\106\061\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\302\031\360\320
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN

Open Source Used In UCM Cloud Analyzer Service 1.0 4855
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
050/371\170\026\031\172\377\030\045\030\252\104\376\301\240\316\134\266\114\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
200/376\360\034\112\360\134\142\062\237\034\272\170\251\120\370
END
CKA_ISSUER MULTILINE_OCTAL
060/075\060\017\060\003\125\004\012\014\010\125\156\151\124\162\165
163/164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002\020\135\337\261\133\132\243\355\135\276\132\145\040\145\003\220\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "UCA Extended Validation Root"
# # Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After: Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"

END

END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\010\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\003\014\020\010\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\031\132\351\033\211\136\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
\060\020\006\133\060\202\004\103\240\003\002\001\002\002\201\000
\312\351\033\211\136\125\003\015\243\346\101\155\304\343\246\341
\060\015\006\011\052\206\110\206\067\015\001\001\013\005\000\060
# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

# Certificate "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\014\070\061\013\060\060\011\010\006\003\125\004\006\023\020\006\023\011\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\012\013\11\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\060\013\040\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\010\040\055\040\107\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\224\060\202\002\174\240\003\002\001\002\002\012\061
\365\344\142\014\154\130\355\326\330\360\015\006\011\052\206\110
\206\367\015\001\001\013\005\000\060\147\061\013\060\011\060\003
\125\004\006\023\002\011\116\061\023\060\021\006\003\125\004\013
\023\012\145\155\123\151\147\156\040\120\13\111\061\045\060\043
\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\060\013\040\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\010\040\055\040\107\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\12\061\365\344\142\014\154\130\355\326\330

END
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

END

# Certificate "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

END

# Certificate "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

END
Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN

Not Valid Before: Sun Feb 18 18:30:00 2018
Not Valid After: Wed Feb 18 18:30:00 2043

Fingerprint (SHA-256):

Fingerprint (SHA1):

CKA_CLASS C/K_OBJECT_CLASS C/KO_CERTIFICATE
CKA_TOKEN C/K_BBOOL C/K_TRUE
CKA_PRIVATE C/K_BBOOL C/K_FALSE
CKA_MODIFIABLE C/K_BBOOL C/K_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERTIFICATE_TYPE C/K_CERTIFICATE_TYPE C/KC_X_509
CKA_SUBJECT MULTILINE_OCTAL
[...]

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
[...]

CKA_SERIAL_NUMBER MULTILINE_OCTAL
[...]

CKA_VALUE MULTILINE_OCTAL
[...]

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\036\003\125\004\012\023
\034\145\115\165\144\150\162\141\040\124\145\143\150\156\157\154
\157\147\151\145\146\163\040\114\151\155\151\164\141\144\061\040\060
\036\006\003\125\004\120\040\122\157\157\164\040\103\101\1040\055\040\107\063\060
\166\060\020\006\007\052\206\110\316\075\002\001\006\005\053\201
\004\000\042\000\124\000\004\043\125\014\120\020\071\137\111\115\237\313\110\054\064
\131\114\354\273\006\034\347\300\162\257\350\256\057\341\101\124
\207\024\250\112\262\350\174\202\346\133\152\265\334\263\165\316
\213\006\320\206\043\277\106\325\216\017\077\004\364\327\034\222
\176\366\245\143\302\365\137\216\056\117\241\030\031\002\053\062
\012\202\144\175\026\223\321\124\321\020\060\010\006\003\050\060\031\125
\035\016\004\026\000\040\024\174\135\002\204\023\324\314\212\233\201
\316\027\034\040\056\051\036\234\110\143\102\060\016\006\003\125\035
\017\001\001\377\004\040\003\002\001\006\060\017\006\003\125\035
\023\001\000\137\077\004\005\060\003\010\001\377\076\012\006\010\0052
\206\011\30\057\004\003\003\000\151\000\060\146\002\061\000\276
\363\141\137\002\020\035\144\225\007\270\030\156\210\020\050\05057
\203\010\027\220\031\037\212\14\350\150\033\172\261\255\325\201
\011\107\357\073\254\010\004\174\134\231\126\355\107\007\322\002
\061\000\235\272\125\374\251\112\350\355\355\346\166\000\102\173
\310\037\140\303\121\121\123\125\073\373\214\173\353\145\011\303
\370\022\315\107\250\202\362\026\125\167\044\176\022\020\225\004
\054\243

END
Open Source Used In UCM Cloud Analyzer Service 1.0

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# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

---

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\316\013\321\237\210\021\026\003\125\004\006\023\002\111\116\061\023\060\006\003\125\004\006\023\002\111\116\061\040\128\113\111\061\045\060\043\006\003\125\004\012\023\034\145\115\165\144\150\162\141\140\124\145\143\150\156\157\157\147\151\145\163\040\141\151\155\151\164\145\144\061\040\060\036\006\003\125\004\003\023\027\145\155\123\151\147\147\156\040\105\101\040\055\040\107\063
END

---

# Certificate "emSign Root CA - C1"

# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

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# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1, O=eMudhra Inc, OU=emSign PKI, C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1, O=eMudhra Inc, OU=emSign PKI, C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK/Object_Class CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "emSign ECC Root CA - C3"
#
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\013\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\012\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\013\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\012\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\173\161\266\020\126\270\022\174\234\250
CKA_VALUE MULTILINE_OCTAL
\060\020\002\035\036\060\020\020\001\261\240\003\002\000\010\002\002\012\173
\161\260\020\012\60\027\002\174\234\250\060\012\000\061\010\052\206\110
\316\075\004\003\000\036\012\061\010\013\060\011\006\060\031\125\004\006
\023\002\125\123\061\023\060\021\010\060\031\125\004\013\023\012\145
\155\123\151\147\157\040\012\130\111\111\061\102\040\060\022\006\003\125
\004\012\023\003\145\115\165\144\150\162\141\040\111\156\143\060
\040\060\036\060\006\031\125\004\003\023\027\145\155\123\151\147\156
\040\010\015\010\034\011\22\157\157\164\040\010\03\01\040\005\050\040\103
\063\060\036\027\015\061\010\070\060\062\061\010\061\070\060\063\060\060
\060\013\027\015\064\046\030\068\062\061\010\070\061\070\063\060\060\060
\132\060\013\026\011\03\060\011\060\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\040\120\113\111\061\024\060\022\006\031\125\004\012\023\013
\145\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006
\003\025\004\003\023\027\145\155\123\151\147\157\040\103\01\040\005\050\040\103
\020\006\007\052\206\110\316\075\002\001\006\005\035\203\010\004\000
\042\003\142\000\004\375\245\141\256\173\046\020\035\351\267\042
\060\025\006\034\201\263\261\102\161\225\071\274\323\122\343\325
\257\371\132\226\227\065\222\066\106\061\062\075\225\125\071\071\132\351
\273\373\132\023\076\010\007\101\074\273\125\157\203\243\152\323\142
\260\021\121\002\160\175\110\035\112\234\335\042\124\042\115\223
\273\310\012\042\257\167\23\343\324\076\157\327\141\021\131\145\307\370
\177\376\365\362\225\124\102\060\100\060\035\006\100\125\035\016
\004\020\004\004\243\373\132\110\032\000\040\010\036\225\035\100\000
\151\031\167\247\346\033\364\031\107\060\016\006\003\125\035\017\000
\001\037\004\004\030\002\001\006\006\017\060\031\125\035\023\001
\001\037\004\005\065\060\003\010\013\377\060\012\006\010\052\206\110
\136\075\004\004\030\010\033\150\000\060\145\002\061\000\264\330\057
\002\211\137\355\266\114\142\272\103\116\023\04\162\265\256\335\034
\336\262\265\334\126\217\130\100\132\055\336\040\114\042\020\331\12
\223\325\176\356\022\100\037\326\207\117\370\337\205\000\206\034
\024\144\144\174\226\203\021\124\260\321\132\141\113\246\017\111
\132\000\037\241\374\444\245\377\177\255\327\060\320\037\167\177
\276\010\007\125\060\120\040\024\365\127\070\012\250\061\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hongkong Post Root CA 3"
#
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\364\115\156\264\272\202\271\106\374\175\375\207\201\171\152\015
\063\017\372\057\370\024\271\200\263\135\115\252\227\341\371\344
\030\035\373\032\070\021\040\46\074\375\362\050\342\356\013\112\110
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232
\264\316\077\045\060\026\177\062\175\242\033\224\320\334\172\241\122
\336\156\223\215\030\046\375\125\254\275\217\233\322\317\257\347
\206\054\331\037\011\157\243\157\251\204\324\163\277\115\241\164
\033\160\043\140\362\314\016\252\177\244\234\114\045\250\262\146
\073\070\377\331\122\240\060\366\162\204\276\150\125\020\001\173\066\163
\054\026\151\223\007\376\261\105\355\273\324\125\152\260\332\265
\112\002\045\047\205\327\267\267\206\104\026\211\115\240\000\053\076
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\107\323\377
\003\123\356\356\356\172\000\102\026\170\324\350\302\276\106\166\210
\023\077\042\273\111\010\022\035\122\000\264\002\176\041\032\036\234
\045\364\363\075\136\036\322\034\371\263\055\266\367\067\134\306
\313\041\116\260\367\231\107\030\205\301\053\272\125\256\006\352
\320\007\262\334\253\320\202\226\165\316\322\120\376\231\347\317
\057\237\347\160\321\141\052\373\041\273\061\320\252\237\107\244
\262\042\312\026\072\120\127\304\133\103\147\305\145\142\003\111
\001\053\103\033\030\370\236\255\172\211\143\016\105\356\240\013
\054\233\055\024\63\030\255\250\107\364\047\114\070\015\056\033
\111\073\122\364\350\210\020\053\124\050\324\362\065\122\264\062
\203\142\151\144\041\142\213\234\237\227\352\164\026\375\037\021\006
\232\233\1364
END
# Certificate "Entrust Root Certification Authority - G4"

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):

cka_class ck_object_class CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Entrust Root Certification Authority - G4"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject_multiline_octal
\021\374\237\275\163\060\002\212\375\077\363\130\271\131\040\360
END

cka_issuer multiline_octal
\060\157\061\013\060\001\110\060\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\157\156\147\061\026\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END

cka_serial_number multiline_octal
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\304\306
\256\043\270\034\132\244
END

cka_trust_server_auth CK_TRUST CK_T_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

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CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH  MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END
CKA_CERT_MD5_HASH  MULTILINE_OCTAL
\211\123\361\120\034\267\174\216\005\361\214\161\070\116\037\210
END
CKA_ISSUER  MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER  MULTILINE_OCTAL
\002\021\000\331\265\103\177\257\251\071\017\000\000\000\000\125
\145\255\130
END
CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  CK_FALSE

# Certificate "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After: Fri Jul 18 23:16:04 2042
CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\103\100\122\157\157\164\040\103\145\162
\164\151\146\151\113\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\105\103\103\100\122\157\157\164\040\103\145\162
\164\151\146\151\113\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\146\362\075\257\207\336\213\261\112\352\014\127\061\001
\302\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\131\106\020\001\1337\240\003\002\001\002\002\020\146
\362\075\257\207\336\213\261\112\352\014\127\061\001\302\354
\101\206\010\005\202\020\110\316\075\054\003\003\060\145\061\103\060
\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003
\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103
\157\162\160\157\162\141\164\151\157\156\061\060\064\006\003
\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105
\103\103\040\122\157\157\164\040\103\145\162\164\151\113\143
\141\164\145\040\101\165\164\150\157\162\151
\061\067\060\036\027\015\061\071\061\062\061\070\062\063\060\066
\064\065\132\027\015\064\062\060\067\061\070\062\063\061\066\060
\064\132\027\015\064\061\013\060\011\060\003\012\050\004\006\023\002\125
\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162
\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\115\157
\156\061\060\064\006\003\125\004\003\023\055\115\151\143\162
\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103
\145\162\164\151\146\151\113\143\141\164\145\040\101\165\164\150\157
\162\151\164\171\040\062\060\061\067\060\061\066\006\007\052
\206\110\316\075\002\001\006\005\053\201\100\04\000\042\003\142\000
\004\324\274\075\002\102\165\101\103\203\043\135\200\004\026\060\021\121

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END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\100\346\112\223\020\321\277\360\031\102\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\066\013\060\001\100\06\003\125\004\006\023\002\125\123\061
\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\214\164\151\157\156\061
# Certificate "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Trust for "Microsoft RSA Root Certificate Authority 2017"

# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;Microsoft RSA Root Certificate Authority 2017&quot;</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
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<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
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<tr>
<td>CKA_TRUST_SERVER_AUTH</td>
<td>CK_TRUST CKT_NSS_TRUSTED_DELEGATOR</td>
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<tr>
<td>CKA_TRUST_EMAIL_PROTECTION</td>
<td>CK_TRUST CKT_NSS_MUST_VERIFY_TRUST</td>
</tr>
<tr>
<td>CKA_TRUST_CODE_SIGNING</td>
<td>CK_TRUST CKT_NSS_MUST_VERIFY_TRUST</td>
</tr>
<tr>
<td>CKA_TRUST_STEP_UP_APPROVED</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Certificate "e-Szigno Root CA 2017"
Open Source Used In UCM Cloud Analyzer Service 1.0 4890

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID: 2.5.4.97=VATHU-23584497, O=Microsec Ltd., L=Budapest, C=HU
# Serial Number: 01:54:48:ef:21:fd:97:59:0ff:d5:04:0a
# Subject: CN=e-Szigno Root CA 2017, OID: 2.5.4.97=VATHU-23584497, O=Microsec Ltd., L=Budapest, C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
## Certificate "certSIGN Root CA G2"

Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Serial Number: 11:00:34:b6:4e:c6:36:2d:36
Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
Not Valid Before: Mon Feb 06 09:27:35 2017
Not Valid After : Thu Feb 06 09:27:35 2042

### General Information

- **CKA_CLASS**: CK_OBJECT_CLASS CKO_CERTIFICATE
- **CKA_TOKEN**: CK_BBOOL CK_TRUE
- **CKA_PRIVATE**: CK_BBOOL CK_FALSE
- **CKA_MODIFIABLE**: CK_BBOOL CK_FALSE
- **CKA_LABEL**: UTF8 "certSIGN Root CA G2"
- **CKA_CERTIFICATE_TYPE**: CK_CERTIFICATE_TYPE CKC_X_509
- **CKA_SUBJECT**: MULTILINE_OCTAL

### Trust Information

- **CKA_TRUST_SERVER_AUTH**: CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
- **CKA_TRUST_EMAIL_PROTECTION**: CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
- **CKA_TRUST_CODE_SIGNING**: CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
- **CKA_TRUST_STEP_UP_APPROVED**: CK_BBOOL CK_FALSE

### Subject Details

- **OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO**
  - **Serial Number**: 11:00:34:b6:4e:c6:36:2d:36
  - **Not Valid Before**: Mon Feb 06 09:27:35 2017
  - **Not Valid After**: Thu Feb 06 09:27:35 2042

### Additional Information

- **Subject Information**: MULTILINE_OCTAL

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# Trust for "certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256): 
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243
\215\222\345\062
END

# Certificate "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After: Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\217\066\117\341\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016
END

CKA_ISSUER_MULTILINE_OCTAL
\060\021\210\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\014\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\014\007\103\150
\151\143\141\147\157\061\044\060\037\006\003\125\004\012\014\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\000\05\367\016\206\332\111\363\106\065\056\272\262
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\11\11\154\151\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\044\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\11\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\161\161\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\12\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\010\11\11\154\151\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\044\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\11\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\161\161\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\12\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\140\060\202\002\007\240\003\002\001\102\002\140\15
\152\137\010\077\050\134\076\121\225\337\135\060\012\060\010\1052
\206\110\316\075\004\003\002\060\201\221\061\013\060\011\006\003
\125\004\060\23\002\125\123\061\021\060\017\006\003\125\004\010
\023\10\11\154\154\151\156\157\151\163\061\020\060\016\006\003
\125\004\007\023\007\103\150\151\143\141\147\157\061\041\1060\037
\006\003\125\004\012\023\030\124\162\165\163\164\161\141\166\145
\104\110\157\154\144\151\167\163\054\040\11\11\156\143\056\061
\072\060\070\006\003\125\004\003\023\061\124\162\165\163\164\167
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<table>
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<tr>
<th>Attribute</th>
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<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td># Trust for &quot;Trustwave Global ECC P256 Certification Authority&quot;</td>
<td></td>
</tr>
<tr>
<td># Issuer: CN=Trustwave Global ECC P256 Certification Authority,O=&quot;Trustwave Holdings, Inc.&quot;.,L=Chicago,ST=Illinois,C=US</td>
<td></td>
</tr>
<tr>
<td># Serial Number:0d:6a:5f:08:3f:28:5c:e:51:95:df:5d</td>
<td></td>
</tr>
<tr>
<td># Subject: CN=Trustwave Global ECC P256 Certification Authority,O=&quot;Trustwave Holdings, Inc.&quot;.,L=Chicago,ST=Illinois,C=US</td>
<td></td>
</tr>
<tr>
<td># Not Valid Before: Wed Aug 23 19:35:10 2017</td>
<td></td>
</tr>
<tr>
<td># Not Valid After: Sat Aug 23 19:35:10 2042</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

Open Source Used In UCM Cloud Analyzer Service 1.0 4900
# Certificate "Trustwave Global ECC P384 Certification Authority"

# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After: Sat Aug 23 19:36:43 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"

# Certificate "Trustwave Global ECC P256 Certification Authority"

# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After: Sat Aug 23 19:36:43 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
# Trust for "Trustwave Global ECC P384 Certification Authority"
#Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150 \\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\102\051\100\241\122\75\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\101\101\100\060\011\010\006\100\003\125\004\006\023\002\125\012\061\021\060\017\006\003\125\004\010\023\010\010\111\154\154\151\035\0156
\057\151\163\061\020\060\016\006\003\125\004\007\023\000\07\033\150
\151\143\141\147\157\061\104\106\037\006\003\125\004\012\023\030\012\162\165\163\164\167\141\166\145\040\010\157\151\144\151\156
\147\163\150\154\040\011\111\156\133\056\061\107\020\060\070\066\003\125\004\003\023\061\124\162\165\163\164\167\141\166\145\040\010\154\157
\142\141\154\040\010\03\010\040\120\063\070\064\040\010\145\162
\164\151\146\151\143\114\164\151\157\156\040\010\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\101\025\205\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "NAVER Global Root Certification Authority"
#
# Issuer: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Subject: CN=NAVER Global Root Certification Authority, O=NAVER BUSINESS PLATFORM Corp., C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\013\060\100\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\104\035\116\101\126\105\122\040
\102\125\123\111\116\105\123\123\040\120\141\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\060\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
Open Source Used In UCM Cloud Analyzer Service 1.0  4904
# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After: Tue Aug 18 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\157\035\210\064\140\306\151\262\065\170\122\333\206\353\170\262\166\054\024\377\015\050\015\062\162\225\333\136\011\033\321\110\04\230\0252
\241\011\11\273\161\012\362\277\366\377\047\241\066\257\270\266\167
\210\033\072\224\155\233\064\220\034\024\135\060\077\267\335\027
\344\020\276\161\320\241\327\167\025\023\241\02\023\277\363\061\0231
\135\233\335\026\155\077\352\006\043\370\010\242\042\355\233\366
\335\352\346\052\020\276\212\030\12\361\042\367\153\015\034\342\216
\166\035\232\215\304\006\021\050\062\267\024\363\235\124\151\267\216
\074\325\244\155\223\101\267\255\366\275\144\173\030\231\115\0071
\240\222\234\15\064\206\221\220\372\144\121\235\376\376\353\245
\365\165\336\211\367\162
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"

# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\006\170\060\011\013\060\001\11\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\105\140\060\052
\006\003\125\004\003\014\043\101\103\100\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\006\170\060\011\013\060\001\11\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\061\016\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\105\140\060\052
\006\003\125\004\003\014\043\101\103\100\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\156\060\202\001\363\240\003\002\001\002\002\020\142
\366\062\154\345\304\343\150\134\033\142\335\234\056\235\225\060
\012\006\010\052\206\110\316\075\004\003\003\060\170\061\013\060
\011\006\003\125\004\006\060\233\002\105\123\061\021\060\017\006\003
\125\004\012\014\010\106\116\115\124\055\122\103\115\061\016\060
\014\006\003\125\004\013\014\005\103\145\162\145\163\061\030\060
\026\006\003\125\004\014\110\144\017\126\101\124\105\123\055\121\062
\070\062\066\060\060\064\112\061\054\060\052\006\003\125\004\003
\014\043\101\103\034\041\122\101\111\132\040\106\116\115\124\055\122
\103\115\040\123\105\122\126\111\110\104\117\122\105\123\040\123\105
\107\125\122\117\123\060\036\027\015\061\070\061\062\062\060\060
\071\063\067\063\063\132\027\015\064\063\061\062\062\060\060\071
\063\067\063\063\132\060\170\061\013\060\006\003\125\004\006
\023\002\015\123\061\102\060\017\006\003\125\004\012\014\101\010
\116\115\124\055\122\103\115\061\160\060\014\006\003\125\004\013
\014\045\103\145\162\145\163\061\030\060\026\006\003\125\004\141
\014\017\126\101\124\105\123\055\121\062\070\062\066\060\060
\112\061\054\060\052\006\003\125\004\003\014\033\101\103\040\122
\101\111\132\040\016\116\115\124\055\122\103\115\040\123\105\122
\126\111\104\117\122\105\123\040\123\105\107\125\122\117\123\060
\166\060\020\060\007\052\206\110\131\060\075\002\001\006\005\053\201
\009\040\000\042\003\142\000\004\136\062\127\121\123\103\122\125\033\070
\112\121\043\134\022\273\322\031\147\236\360\145\121\132\136\027\037
\107\261\131\136\212\127\107\233\000\002\223\104\027\151\133\102\037
\261\126\072\030\016\264\135\214\263\146\135\241\064\371\066\054
\11\133\136\103\374\263\146\104\110\040\231\146\375\327\035\375\257
\066\115\316\003\115\007\161\137\257\152\005\322\242\103\132\012
\122\157\000\100\033\116\216\212\323\026\060\100\060\017\006\003\125
\035\023\002\100\137\700\04\005\060\003\000\110\137\700\060\160\060
\010\005\02
\125\035\017\001\000\137\700\04\004\003\022\001\060\060\356\006\003
\125\035\016\004\026\060\04\024\001\127\105\357\277\021\206\140\362
\117\320\101\116\253\163\037\347\322\156\111\060\120\060\010\005
\206\110\316\075\004\003\003\115\000\060\146\002\061\000\025
\112\343\053\100\033\164\021\362\225\255\026\043\336\116\014\032
\316\351\134\540\136\153\010\173\374\070\342\117\313\123\124\105\027
\021\114\024\047\046\125\071\165\115\120\033\140\023\220\023\222\002
\061\100\372\112\154\140\210\163\336\356\270\230\142\295\131\650\3
\302\233\122\124\066\106\103\355\257\260\224\114\353\117\306\033\321
\363\142\247\074\377\223\056\007\134\111\100\147\151\102\220\021
\277\347
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL \142\377\331\236\300\145\015\003\316\165\223\322\355\077\055\062
\311\343\345\112
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL \031\166\234\122\003\057\322\321\273\043\314\335\036\022\125\273
END
CKA_ISSUER MULTILINE_OCTAL \060\170\061\013\060\011\100\060\003\125\004\006\023\002\105\123\061
\021\160\170\060\003\125\004\012\014\010\106\116\115\124\055\122
\103\115\060\101\160\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\060\103\060\026\006\003\125\004\141\014\017\126\101\124
\105\123\055\121\062\070\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\105\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\020\142\366\062\154\345\304\343\150\134\033\142\335\234\056
\235\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CKOBJECTCLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\060\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\060\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\020\000\160\060\020\020\03\130\240\003\002\001\002\002\020\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060
\015\006\011\052\206\110\206\367\015\001\001\014\005\000\060\122
\061\13\060\011\006\003\125\004\006\023\002\102\105\061\031\060
\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151
\147\156\040\156\166\055\163\141\061\050\060\046\060\003\125\004
\003\023\037\107\154\157\142\141\154\123\151\147\156\040\123\145
\143\151\165\162\145\040\115\141\151\154\040\122\157\157\164
\064\065\060\036\027\015\062\060\060\063\061\070\060\060\060\060
\060\060\013\027\015\064\065\060\060\063\061\070\060\060\060\060
\060\013\020\012\061\130\060\011\006\003\125\004\006\023\002\111
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\050\060\046
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "GlobalSign Secure Mail Root E45"

# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After: Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOLE CK_FALSE
cka_label UTF8 "GlobalSign Secure Mail Root E45"
cka_certificate_type CK_Certificate_Type CKC_X_509
cka_subject_multiline_octal
  0601220610130600011006000301250004000600230020102105001
  031000270600003125000401020230201071541571421411154
  1231511471561040156116605551631141061050060046000003
  125000400302303710715415714214111411541231151147156040
  1231451431651621450401151141151154040122157157164
  04010500640065
end
cka_id UTF8 "0"
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\030\056\037\062\117\211\337\276\047\035\225\106\135\326\361\236\345\270\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\374\306\056\237\364\122\055\052\250\244\272\373\147\062\377
END
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\001\006\003\125\004\006\023\002\012\010\061
\031\060\027\006\003\125\004\012\023\020\017\154\157\142\141\154
\123\151\147\165\040\156\166\055\163\141\061\050\060\046\060\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE

Open Source Used In UCM Cloud Analyzer Service 1.0 4916
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\017\154\157\142\144\154\123\151\147\156\040\122\157\157\164\040\122\064\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\125\004\012\023\020\017\154\157\142\144\154\123\151\147\156\040\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\202\020\003\102\240\003\002\001\002\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320\337\045\147\321
END
### # Trust for "GlobalSign Root R46"

- **Issuer:** CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
- **Subject:** CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
- **Not Valid Before:** Wed Mar 20 00:00:00 2019
- **Not Valid After:** Tue Mar 20 00:00:00 2046
- **Fingerprint (SHA-256):**

```bash
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
```

---

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# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):

cka issuer multiline_octal
\060\010\060\010\013\060\011\000\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\150\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
end

cka_serial_number multiline_octal
\002\022\021\322\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
end

cka trust_server_auth ck_trust ck_trust_server_auth
cka trust_email_protection ck_trust ck_trust_email_protection
cka trust_code_signing ck_trust ck_trust_code_signing
cka trust_step_up_approved ck_bool ck_false

# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After: Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):

cka_class ck_object_class ck_object_class
cka_token ck_bool ck_true
cka_private ck_bool ck_false
cka_modifiable ck_bool ck_false
cka_label utf8 "GlobalSign Root E46"
cka_certificate_type ck_certificate_type ck_certificate_type
cka_subject multiline_octal
\060\010\060\010\013\060\011\000\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\150\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
end

cka_id utf8 "0"

cka issuer multiline_octal
\060\010\060\010\013\060\011\000\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\150\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\105\064\066
end
# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "GlobalSign Root E46"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\071\264\154\325\376\200\006\353\342\057\112\273\010\063\240\257
\333\271\335\204
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\270\146\355\336\010\203\343\311\342\001\064\006\254\121\157
END

# Certificate "GLOBALTRUST 2020"
#
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After: Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ISSUER_MULTILINE_OCTAL
# Certificate "ANF Secure Server Root CA"

# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\031\125\004\003\023\031\101\116
\106\040\123\143\141\143\151\157\166\145\162\040
\122\157\157\164\040\103\101

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040
\103\145\162\164\151\143\141\143\151\157\156\061\024\060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\031\125\004\003\023\031\101\116
\106\040\123\143\141\143\151\157\166\145\162\040
\122\157\157\164\040\103\101

END
# Trust for "ANF Secure Server Root CA"
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\137\036\301\137\256\002\374\153

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226

CKA_ISSUER MULTILINE_OCTAL
\060\021\204\061\022\060\020\006\003\125\004\005\023\011\107\066
\063\062\070\067\065\061\060\061\013\060\011\006\003\125\004\006
\023\002\105\123\061\047\070\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\144\144\144\145\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\102\4060
\022\006\003\125\004\013\023\013\101\116\106\040\103\101\040\122
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\143\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\164\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\153\323\343\274\154\371\153\261

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_Trust_Email_Protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After: Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After: Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\160\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\114\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\161\164\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\030\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\104\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\164\060\106\101\13\060\11\006\003\125\004\006\023\002\120\114\061
\041\160\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\104\114\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\161\164\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\030\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\202\001\145\002\200\135\240\003\002\001\002\002\020\170
\217\047\134\201\022\122\040\245\004\320\055\335\272\163\364\060
END

# Trust for “Certum EC-384 CA”
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Serial Number:78:8f:27:5c:81:12:52:20:61:01:34:03:01:54:07:60:16:01:00:00
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"

CKA_DEFAULT

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\242\314\254\147\125\151\126\327\345

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\145\263\226\140\227\022\241\354\116\341\075\243\306\311\361

CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\101\163\163\145\143\157
\040\041\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\104\076\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\106\103\100\027\006
\003\125\004\030\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\012\020\170\217\047\134\201\022\122\040\245\004\320\055\335\327
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Root CA"

# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
 CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
 CKA_TOKEN CK_BBOOL CK_TRUE
 CKA_PRIVATE CK_BBOOL CK_FALSE
 CKA_MODIFIABLE CK_BBOOL CK_FALSE
 CKA_LABEL UTF8 "Certum Trusted Root CA"
# Certificate "TunTrust Root CA"

# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
CCA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CCA_TOKEN CK_BBOOL CK_TRUE
CCA_PRIVATE CK_BBOOL CK_FALSE
CCA_MODIFIABLE CK_BBOOL CK_FALSE
CCA_LABEL UTF8 "TunTrust Root CA"
CCA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CCA_SUBJECT MULTILINE_OCTAL
\060\141\061\130\060\011\100\060\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\140\056\101\147\145\145\156\143\145
\140\116\141\164\151\157\156\141\154\145\140\144\145\140\103\145
\162\164\151\146\151\143\141\164\151\157\156\140\105\154\145\143
\164\162\157\156\151\161\165\145\061\060\027\006\003\125\004
\003\014\020\124\165\156\124\162\165\163\164\040\122\157\157\164
\040\103\101
# Trust for "TunTrust Root CA"
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\317\351\160\204\017\340\163\017\235\366\014\177\054\113\356\040
\106\064\234\273

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\133\066\134\266\136\270\132\370\340\061\127\264

CKA_ISSUER MULTILINE_OCTAL
\122\244\004\077\334\075\140\027\125\063\123\012\060\140\216\333
\123\151\135\151\224\025\027\140\347\142\020\166\120\123\014\214\314\060
\106\111\134\141\222\025\125\053\151\151\141\163\135\147\042\142\251\1367
\134\144\154\237\026\141\147\066\047\105\365\101\113\277\366\102
\102\126\132\062\141\214\032\214\004\272\243\077\357\342\065\307\371
\164\340\157\064\101\320\277\163\145\127\040\371\123\214\172\121\146
\150\044\116\200\145\257\020\131\006\131\136\214\255\270\130\106\107
\127\137\155\220\170\213\101\116\125\125\037\334\073\122\162\156
\204\323\320\141\140\153\314\166\127\342\055\205\042\202\250\066\105
\135\300\123\155\333\30\135\304\134\213\137\133\100\134\130\235\150
\167\133\203\104\213\123\131\125\105\100\213\131\130\323\220\076\116\133
\000\361\025\252\105\203\053\1323

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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# Certificate "HARICA TLS RSA Root CA 2021"

# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\10\145\154\145\156
\151\143\040\10\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164\165
\164\151\157\165\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\11\10\11\122\111\103\101\040\124\141\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\154\061\013\060\011\010\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\10\145\154\145\156
\151\143\040\10\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\156\163\164\151\164\165
\164\151\157\157\163\040\103\101\061\044\060\042\006\003\125\004
\003\014\033\11\10\11\122\111\103\101\040\124\141\123\040\122\123
\101\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
# Trust for “HARICA TLS RSA Root CA 2021”
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\002\055\005\202\372\210\316\024\014\006\171\336\177\024\020\351\105\327\245\155
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\145\107\233\130\206\335\054\360\374\242\204\037\036\226\304\221
END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\006\003\125\004\006\023\002\107\122\061\067\060\065\006\003\125\004\012\014\056\110\145\154\145\156\151\143\040\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014\033\110\101\122\111\103\101\040\124\114\123\040\122\123\101\104\0122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\071\132\223\034\335\103\363\306\216\223\307\364\144\211\070\176
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HARICA TLS ECC Root CA 2021"
#
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
274260301235351230222160031070127351215247264135
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
274260301235351230222160031070127351215247264135
CKA_CERT_MD5_HASH MULTILINE_OCTAL
2563671143451460655321267233214042223164323113260
End of Open Source Used In UCM Cloud Analyzer Service 1.0

## Certificate "HARICA Client RSA Root CA 2021"

**Issuer:** CN=HARICA Client RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR


**Subject:** CN=HARICA Client RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR

**Not Valid Before:** Fri Feb 19 10:58:46 2021

**Not Valid After:** Mon Feb 13 10:58:45 2045

**Fingerprint (SHA-256):**

```
```


**CA_CLASS** CK_OBJECT_CLASS CKO_CERTIFICATE

**CA_TOKEN** CK_BBOOL CK_TRUE

**CA_PRIVATE** CK_BBOOL CK_FALSE

**CA_MODIFIABLE** CK_BBOOL CK_FALSE

**CA_LABEL** UTF8 "HARICA Client RSA Root CA 2021"

**CA_CERTIFICATE_TYPE** CK_CERTIFICATE_TYPE CKC_X_509

**CA_SUBJECT** MULTILINE_OCTAL

```
06015706101306001110060303125004006023002107122061
067060065006003125004012014056110145154145145156
151143040101143144144145155115143040141145144040
122145163145141162143150040111156163164151164165
164151157156163040103101061047060045006003125004
003014036110101122111103101040103154115145156164
1040122123101040122157157164040103101040062060062
061
```

End of Certificate

**CKA_ID** UTF8 "0"

**CKA_ISSUER** MULTILINE_OCTAL

End of Certificate
# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HARICA Client ECC Root CA 2021"
#
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After: Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL
\060\020\020\020\132\020\020\020\013\41\240\003\000\002\000\010\020\020\020\020\061
\150\033\133\030\341\142\127\036\322\031\104\210\346\020\175\360\060
\012\000\001\010\052\026\061\110\316\075\004\003\000\060\157\061\013\060
\011\006\003\012\005\004\060\023\002\107\122\061\067\060\065\006\000\03
\125\004\012\014\045\061\110\145\154\145\156\151\143\040\101\143
\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145\141
\162\143\150\040\111\156\163\164\151\165\154\151\157\156\163
\040\013\101\010\061\047\060\045\006\000\03\125\004\003\014\036\110
\122\111\103\101\040\103\154\151\145\164\040\105\103\103\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\06\02\06\01\062\060\062\061\071\061\061\060\063\063\064\132\027\015\064
\065\060\062\060\063\061\060\063\063\063\132\060\157\061\013
\060\011\060\031\125\004\006\023\002\107\122\061\067\060\065\006
\003\125\004\012\014\045\061\110\145\154\145\156\151\143\040\101
\143\141\144\145\155\151\143\040\141\156\144\040\122\145\163\145
\141\162\143\150\040\111\156\163\164\151\165\164\151\157\156
\163\030\103\101\061\047\060\045\006\000\03\125\004\003\014\036\110
\101\122\111\103\101\040\103\154\151\145\156\164\040\105\103\103
\040\122\157\157\164\040\103\101\040\062\060\062\061\060\036\027\015
\02\06\00\06\007\02\020\110\316\075\002\000\011\060\053\120\010\040
\042\000\142\000\000\04\007\030\255\225\226\224\320\134\017\202\367
\052\100\372\002\311\111\075\066\226\243\263\004\152\301\155\225\001
\210\140\022\124\154\134\242\053\156\023\072\210\225\014\034\046
\020\066\112\111\031\267\030\336\073\350\250\120\037\312\337\133
\277\111\200\025\033\034\060\341\035\132\070\052\221\001\007\0376
\155\054\064\357\050\050\022\273\243\031\371\117\206\225\213\065\317
\23\61\32\312\115\022\254\23\102\060\010\060\017\006\003\125\035\023
\001\000\137\77\004\005\060\003\001\001\137\77\060\035\006\003\125\035
\016\040\026\004\024\122\010\322\276\062\232\014\357\365\032\227
\354\116\137\032\223\123\331\152\225\055\060\016\006\003\125\035\017
\001\001\137\77\004\004\003\002\001\126\060\060\012\060\010\052\206\110
\316\075\004\003\003\003\147\000\060\144\002\060\014\061\105\106
\117\250\346\262\303\167\262\032\030\113\055\210\173\130\346\253
\122\153\104\003\260\027\377\337\201\163\104\121\054\375\223\035
\006\173\024\323\211\135\410\001\143\357\041\001\056\002\060\057\311
\056\132\154\054\053\331\122\250\023\262\071\134\122\174\366\370
\070\312\056\361\132\045\035\362\242\111\242\225\370\301\130\136\117
\376\163\012\357\061\126\025\043\130\023\214\213\336\073
END
CKA_NSS_MOZILLA_CA_POLICIES CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\276\144\323\332\024\113\322\153\257\217\333\246\246\162\370
\336\046\371\000
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\255\270\120\246\251\120\172\154\075\032\252\244\322\143\244\104
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\103\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\003\125\004\012\014\056\110\145\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\106\104\106\045\006\003\125\004
\003\014\036\110\101\122\111\103\101\104\103\154\151\145\156\164
\040\105\013\030\040\122\157\157\164\040\103\101\104\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\330\341\142\127\036\322\031\104\210\346\020
\175\360
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
END

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After: Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

Open Source Used In UCM Cloud Analyzer Service 1.0 4955
# Certificate "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
060107061101306901110069003112500400602300211031116061
034060032006003112500400120230231511124162165163103
150115115611404010311570560541141641440560610132060
0300060031250040030230211661124162165163040105103
103040102211571571640400103101
END

CKA_VALUE MULTILINE_OCTAL
0602020002017060202001122524000300200100020020241156
15227413112521232762320071114724232211531244
073346155034326332
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):

# Certificate "vTrus Root CA"
# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERTIFICATE_TYPE CK CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\013\060\011\006\003\125\004\006\023\002\013\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\013\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\013\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\103\013\060\011\006\003\125\004\006\023\002\013\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\013\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\013\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\103\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274\005\215\105
\375\157\274\005\215\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\020\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274\005\15\105\060\006\015\110\026\367\015\001\001\013
\150\150\156\141\023\013\157\056\054\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\013\101\060\036\027\015\016\070\060\067\063
\150\060\067\062\026\060\060\065\132\027\015\064\063\060\067\063\061
\060\060\067\062\064\060\065\132\060\013\060\011\060\003\125
\004\000\023\002\013\011\060\013\030\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\040\013\157\056\054
\114\164\144\056\061\026\060\024\006\003\125\004\003\023\015\166
\124\162\165\163\040\122\157\157\164\040\010\010\060\020\002\002\042
\060\015\009\060\011\015\026\011\026\367\015\001\001\001\005\000\003
\020\02\001\017\000\060\020\002\012\022\002\002\001\000\027\125\174
\141\133\270\035\004\142\005\240\256\154\267\160\264\101\352\113
\003\160\020\077\220\132\034\213\073\260\146\213\154\110\246\034
\042\272\325\100\222\356\063\262\043\13\11\126\274\130\332\213
\236\130\031\362\057\13\11\060\214\143\132\272\237\243\013\260\263
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus Root CA"
# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
006017061013060010100600031250040006023002125123061
05116004700600312500401202304011111156164145162156
14516410401231451431651621511641710401221045163145
141162143150040107162157165160061025060023006003
125004003023014111123122107040122157157164400130
062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020101322235132116213523562472003010541543511057

Open Source Used In UCM Cloud Analyzer Service 1.0 4962
\207\122
END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\033\006\020\020\001\241\240\000\030\002\001\002\002\020\010
\322\235\322\116\323\325\356\247\200\301\054\154\351\057\207\122\060
\012\000\010\095\202\060\110\031\160\075\004\000\030\003\060\117\061\013\060
\011\000\003\125\004\000\023\002\125\123\061\015\060\047\000\060
\125\004\012\023\040\111\156\164\145\162\156\145\164\040\123\145
\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150\040
\107\162\157\165\160\061\102\25\060\023\000\060\033\125\004\003\023\014
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\27\015
\062\060\060\071\060\064\060\060\060\060\060\060\060\061\32\060\117\061\013
\060\001\006\003\125\004\006\023\002\125\123\061\105\160\047\006
\003\125\004\040\120\23\040\111\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150
\040\017\061\157\165\160\061\125\000\003\023\125\004\003\023
\014\111\123\122\07\040\122\157\157\164\040\130\062\060\166\060
\020\000\007\052\202\060\110\16\075\002\001\160\060\053\201\004\000
\042\003\142\000\004\315\233\325\237\200\203\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\153\007\266\334\026
\373\132\123\024\333\342\161\140\034\272\105\22\021\121\116\352
\006\337\367\052\020\263\034\244\271\130\035\130\062\340\003\340\036\020
\030\070\213\327\105\330\012\152\156\346\000\167\337\002\211\175
\042\330\012\156\232\133\167\337\360\372\101\354\071\334\165\312
\150\000\014\037\352\243\102\060\100\060\016\060\033\125\035\017
\001\001\037\004\000\004\300\100\006\001\07\006\033\125\035\023
\001\001\037\004\000\005\006\003\001\100\077\060\035\006\031\125\035
\016\004\026\004\024\174\012\226\256\336\131\110\073\372\222\370
\236\214\317\155\213\251\162\067\225\060\012\100\010\052\206\110
\016\075\040\030\003\150\000\060\145\002\060\173\171\116\010
\120\204\302\014\020\106\033\105\160\377\130\231\133\364\375\244
\322\125\246\040\055\164\326\064\247\101\243\120\137\000\047\126
\262\476\047\165\000\257\22\056\165\232\015\374\002\061\100\0213
\365\167\154\332\310\145\252\134\013\154\356\024\235\047\167\244
\371\123\245\121\44\012\230\237\200\206\133\102\237\012\365
\376\256\000\150\347\214\111\017\266\157\133\130\253\362\347
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"

# Certificate "HiPKI Root CA - G1"

# Issuer: CN=HiPKI Root CA - G1,O= "Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O= "Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After: Thu Dec 31 15:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_Certificate_Type CK_Certificate_Type CKC_X_509
CKA_Subject MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_ID UTF8 "0"
CKA_Issuer MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_Serial_Number MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_Value MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\020\055
\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060
\015\006\011\052\206\110\206\367\015\000\101\013\005\000\060\117
\061\103\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\004\010\030\012\001\004\032\010\150\165\156\147\150\167\141
\040\012\145\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120
\131\111\040\122\157\157\164\040\013\101\040\055\040\107\061
\036\027\015\061\071\060\062\062\062\060\071\064\060\060\132
\027\015\063\067\061\062\063\061\106\065\065\071\065\071\132\060
\176\071\011\036\060\111\006\003\125\004\006\023\002\124\127\061\043
\060\041\006\003\125\004\012\014\032\010\150\165\156\147\150\167
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\115
\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061
\060\020\002\042\060\015\006\011\052\206\110\206\367\150\001\001
\001\005\000\003\020\020\017\000\000\060\202\020\012\020\020\001
\000\364\036\177\122\163\062\014\163\344\275\023\164\243\324\060
\250\320\256\113\330\266\337\165\107\146\364\174\347\071\004\036
\152\160\040\032\132\107\162\147\125\364\245\350\235\325\030\041
\241\360\147\272\314\040\115\026\104\123\277\215\371\134\233\057
\125\310\067\077\037\244\300\234\263\344\016\134\240\106\376\167
\372\032\240\070\352\535\232\162\336\053\275\224\127\072\272\354
\171\347\137\175\102\144\071\172\046\066\367\044\360\325\057\0272
\225\230\021\146\255\227\065\326\165\001\200\340\257\364\204\141
\310\064\137\222\003\1211\171\160\246\337\313\365\231\115\171\315
\116\274\127\237\103\116\153\056\053\030\70\015\263\142\272\305
\065\357\071\015\010\036\317\161\250\242\262\206\007\133\072\311
\343\135\077\145\004\200\107\062\104\160\225\116\061\147\152\164
\133\020\105\169\352\260\237\320\346\065\376\116\237\213\314\053
\222\015\313\156\045\140\205\106\315\321\252\260\166\146\223\167
\226\276\120\237\070\266\044\116\046\013\034\355\172\126\032\340
\351\132\306\144\255\114\172\000\110\040\057\271\100\237\023\076
\276\025\170\235\205\020\112\052\273\336\325\031\103\332\333\312
\133\107\206\203\013\077\266\015\166\170\163\171\042\136\261\200
\037\317\276\321\077\126\020\230\053\225\207\241\037\235\144\024
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000
\234\077\350\245\337\352\266\017\310\360\255\155\122\250\027\253
\233\141\374\022\121\065\344\045\375\257\252\152\206\071
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\152\222\344\250\356\033\354\226\105\067\343\051\127\111\315\226
\343\345\322\140
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\011\170\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\146\056\061\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
# Certificate "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\200\345\060\200\001\334\060\200\001\203\240\003\002\001\002\002\015\002
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\200\001\345\060\200\001\203\240\003\002\001\002\002\015\002
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CERT_SHA1_HASH_MULTILINE_OCTAL
\153\240\260\341\161\357\132\255\376\110\025\200\167\020\364
\275\157\013\050
END
CKA_CERT_MD5_HASH_MULTILINE_OCTAL
\046\051\370\155\341\210\277\242\145\177\252\304\315\017\177
END
CKA_ISSUER_MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\101\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\015\002\003\345\176\365\077\223\375\245\011\041\262\246
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "GTS Root R1"
#
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\107\061\013\060\001\110\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\070\143\113\351\020\156\343\255\216\153
\235\331\201\122
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100
CKA_ISSUER MULTILINE_OCTAL
\143\325\066\127\267\202\155\334
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\123\223\157\061\260\023\111\210\153\242\027
END

# Certificate "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number: 02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
<table>
<thead>
<tr>
<th>CKA_CLASS</th>
<th>CK_OBJECT_CLASS</th>
<th>CKO_CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8</td>
<td>&quot;GTS Root R2&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE</td>
<td>TYPE</td>
<td>CK_CERTIFICATE</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8</td>
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</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Certificate "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECTMULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
\060\020\002\011\060\020\020\001\216\240\003\002\001\002\002\015\002
\003\034\052\020\023\053\040\037\004\045\047\155\075\146\060\012\020\060\010
\052\020\061\103\160\075\004\003\003\060\107\061\013\060\011\010\006\003
\125\020\004\006\023\002\021\012\061\060\040\006\003\012\020\040
\023\010\117\157\147\154\145\040\124\162\165\163\164\010\123
\145\162\166\151\143\145\163\040\011\144\010\061\024\060\022\006
\003\125\004\003\020\031\107\124\123\040\122\157\157\164\010\122
\063\060\036\027\015\060\016\060\060\060\062\062\060\060\060\060\060
\060\013\020\071\015\063\060\060\060\062\062\060\060\060\060\060
\132\060\107\061\013\060\011\006\003\012\050\004\006\023\002\125\123
\061\042\060\040\006\003\012\050\004\012\020\031\107\157\157\147\154
\145\040\124\162\165\163\164\010\123\145\162\166\151\143\145\163
\040\114\114\103\061\024\060\022\006\003\012\050\004\003\023\013\107
\124\123\040\012\122\157\157\164\040\122\063\060\166\060\020\006\007
\052\020\061\110\166\075\002\000\100\060\053\032\010\004\000\004\020\003\124
\000\000\004\037\117\063\207\063\051\122\124\124\124\123\336\313\307\041\130
\101\121\352\126\235\053\113\205\033\035\140\047\274\177\046\121
\162\157\342\237\326\243\312\141\105\024\106\213\125\357\176\206
\214\354\261\176\057\377\251\161\123\350\020\105\004\101\125\156
\105\033\052\046\171\273\320\000\134\131\122\234\124\226\105\011
\261\132\154\221\104\255\204\232\126\232\214\145\200\140\023\366
\340\047\243\102\060\010\060\016\006\003\125\035\017\000\010\137
\004\004\003\020\021\126\060\017\060\003\125\035\023\020\010\137
\004\005\060\003\000\010\137\077\060\035\006\031\125\035\016\040\026
\004\024\130\136\146\267\240\055\256\205\201\137\323\361\052\2022
\275\250\012\124\357\254\060\012\006\001\005\206\110\316\075\004
\003\030\003\151\000\060\146\002\026\061\003\066\341\040\025\024\173
\124\243\220\026\021\277\204\310\352\157\153\027\236\036\106\230
\040\023\237\233\015\331\125\323\057\315\174\370\133\056\125\273
\277\335\222\222\267\244\014\334\061\134\124\202\006\010\000\374\227\146
\146\345\103\026\023\120\335\077\337\057\276\024\070\035\100\131
\261\027\032\021\165\351\275\003\121\046\176\204\345\311\140\246
\225\327\124\131\267\347\021\054\211\324\271\135\027
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\220\074\322\062\150\077\011
\315\240\036\106
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\002\224\106\121\224\345\340\042\112\213\347\163
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\125\004\006\125\123\061
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\123\040\122\157\157\164\040\122\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\045\047\155\075\146
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
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# Fingerprint (SHA-256):

# Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\125\004\006\125\123\061
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\123\040\122\157\157\164\040\122\063

Open Source Used In UCM Cloud Analyzer Service 1.0 4979
# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number: 02:03:e5:08:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Class CK_OBJECT_CLASS CKO_NSS_TRUST
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "GTS Root R4"

Found in path(s):
  * /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
  * /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/certdata.txt

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 *
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Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/c_rehash.c
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/c_rehash.c

1.655 aws-java-sdk-healthlake 1.12.186
1.655.1 Available under license :
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1.656 openssl 1.1.1n-r0
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1.661 model 2.6.1

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None
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jar/com/amazonaws/services/applicationinsights/model/UpdateLogPatternRequest.java
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1.665 postgresql 42.3.3

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* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-jar/javax/annotation/concurrent/NotThreadSafe.java

1.667 tomcat-jaspic-api 8.5.75
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* /opt/cola/permits/1301977202_1649309988.96/0/tomcat-jaspic-api-8-5-75-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /opt/cola/permits/1301977202_1649309988.96/0/tomcat-jaspic-api-8-5-75-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java
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