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Text Part Number: 78EE117C99-1289108940

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* /opt/cola/permits/1283432138_1646722275.6/0/opencsv-2-0-sources-
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The Unicode Standard, Unicode Character Database, Version 13.0.0

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| Gallium code | src/gallium/ | MIT |
| Ext headers | GL/gltext.h | Khronos |
| | GL/gltext.h | Khronos |
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include/GL/gl.h :

Mesa 3-D graphics library

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include/GL/glex.h

include/GL/glxext.h

include/GL/wglxext.h :

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include/KHR/khrplatform.h :

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1.4 log4j-api 2.17.0

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1.5 audit4j-spring 2.5.0

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```

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```
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1.8 spring-framework 4.3.22.RELEASE

1.8.1 Available under license :

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```
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```

*/

Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/serializer/Serializer.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/comparator/NullSafeComparator.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/SmartClassLoader.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/style/ToStringStyler.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/task/TaskRejectedException.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/StringToArrayConverter.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/CommonsLogWriter.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/PathMatcher.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/style/DefaultToStringStyler.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/style/DefaultValueStyler.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/ConstantException.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/AttributeAccessor.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/serializer/Deserializer.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/ExceptionDepthComparator.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/comparator/InvertibleComparator.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-

jar/org/springframework/core/style/StylerUtils.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/task/TaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/io/WritableResource.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/util/comparator/ComparableComparator.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/SpringVersion.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/ParameterNameDiscoverer.java
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- * /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/PatternMatchUtils.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java

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jar/org/springframework/util/xml/StaxStreamHandler.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-

jar/org/springframework/core/env/PropertiesPropertySource.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/NestedIOException.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
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jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
*/opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
*/opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/env/CommandLineArgs.java
*/opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/env/PropertySources.java
*/opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
jar/org/springframework/core/convert/support/ConfigurableConversionService.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/env/Environment.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/CollectionToStringConverter.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/StringValueResolver.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java

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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/annotation/DefaultAnnotationAttributeExtractor.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/env/ConfigurablePropertyResolver.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/backoff/ExponentialBackOff.java

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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/GenericConversionService.java

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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/StopWatch.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/util/xml/AbstractXMLReader.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/annotation/MapAnnotationAttributeExtractor.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/convert/converter/ConverterFactory.java
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*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/type/filter/TypeFilter.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/io/support/ResourcePatternResolver.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/io/ContextResource.java

* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/style/ValueStyler.java

1.9 findutils 4.6.0+git+20170828 2

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Version 3, 29 June 2007

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1.10 jackson-databind 2.10.0

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Found in path(s):

- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NodeType.java
- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonDiff.java
- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NoopProcessor.java
- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/ApplyProcessor.java
- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Constants.java
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- * /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.15 nspr 4.18 1ubuntu1

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1.17 kubernetes-model-flowcontrol 5.4.1

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* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-flowcontrol/pom.xml

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* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/LimitedPriorityLevelConfiguration.java

* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/LimitResponse.java

* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/FlowSchema.java

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jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/FlowSchemaSpec.java
* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/FlowSchemaSpec.java
jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/FlowSchemaList.java
* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/FlowSchemaList.java
jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/PriorityLevelConfigurationSpec.java
* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/PriorityLevelConfigurationSpec.java
jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/PriorityLevelConfigurationList.java
* /opt/cola/permits/1283430890_1646722529.57/0/kubernetes-model-flowcontrol-5-4-1-sources-jar/io/fabric8/kubernetes/api/model/flowcontrol/v1beta1/PriorityLevelConfigurationList.java
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1.18 pcre 8.39 9

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1.19 joda-time 2.8.2

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1.20 file 5.32-2ubuntu0.4

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1.21 metrics-jvm 4.1.9

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1.22 commons-lang3 3.5

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1.23 httpcore5 5.0

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1.24 javax-persistence-api 2.2

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1.25 qemu-utils 2.11+dfsg-1ubuntu7.39

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```

/*
 * FreeBSD strace list
 *
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 */

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },

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{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\\\"%s\\\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\\\"%s\\\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\\\"%s\\\",\\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },

```

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{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
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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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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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1.26 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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Upstream-Contact: heimdal@h5l.org

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

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GSS-API mechglue layer.

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/reflect/FieldNameMatcherStrategy.java

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* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/pollinterval/IterativePollInterval.java
* /opt/cola/permits/1141041685_1614924779.91/0/awaitility-4-0-1-sources-1-jar/org/awaitility/core/DeadlockException.java
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jar/org/awaitility/core/ExceptionIgnorer.java
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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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Upstream-Contact: Jeff Moyer <jmoyer@redhat.com>

Source: <https://pagure.io/libaio.git>

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```
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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org/hyperic/sigar/ptql/StringPattern.java

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org/hyperic/sigar/FileWatcherThread.java

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org/hyperic/sigar/SigarException.java

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org/hyperic/sigar/ptql/ProcessQuery.java

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/NetServices.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/jmx/SigarProcess.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/ptql/MalformedQueryException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/ptql/ProcessFinder.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/Tail.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/test/TestThreadCpu.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/RPC.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/test/TestSwap.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/Kill.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/win32/RegistryKey.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/Watch.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/Ps.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/cmd/SigarCommandBase.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/cmd/ProcInfo.java

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org/hyperic/sigar/test/TestProcTime.java
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/win32/FileVersion.java

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org/hyperic/sigar/cmd/EventLogTail.java

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org/hyperic/sigar/jmx/SigarRegistry.java

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org/hyperic/sigar/jmx/SigarCpuInfo.java

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org/hyperic/sigar/jmx/AbstractMBean.java

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org/hyperic/sigar/jmx/SigarLoadAverage.java

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org/hyperic/sigar/jmx/SigarCpuPerc.java

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org/hyperic/jni/ArchNotSupportedException.java

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org/hyperic/jni/ArchLoaderException.java

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org/hyperic/sigar/win32/ServiceConfig.java
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org/hyperic/sigar/NfsFileSystem.java
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org/hyperic/sigar/ptql/ProcessQueryFactory.java
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org/hyperic/sigar/test/TestNetIf.java
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org/hyperic/sigar/win32/Win32.java
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org/hyperic/sigar/win32/Service.java
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org/hyperic/sigar/test/TestProcState.java

* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/cmd/Du.java

* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/pager/PageList.java

* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/test/TestProcModules.java

* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/shell/FileCompleter.java

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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/util/Getline.java

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org/hyperic/sigar/cmd/MemWatch.java

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org/hyperic/sigar/shell/ShellCommand_sleep.java
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org/hyperic/sigar/test/TestLog.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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org/hyperic/sigar/win32/test/TestMetaBase.java
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org/hyperic/sigar/shell/MultiwordShellCommand.java
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org/hyperic/sigar/cmd/ShowEnv.java
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org/hyperic/sigar/FileWatcher.java
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org/hyperic/sigar/shell/ShellCommand_help.java
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org/hyperic/sigar/vmware/VMwareException.java
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org/hyperic/sigar/SigarCacheObject.java
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org/hyperic/sigar/test/TestProcList.java
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org/hyperic/sigar/shell/ShellCommandHandler.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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org/hyperic/sigar/cmd/Win32Service.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/shell/ShellCommand_source.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/win32/EventLogThread.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/shell/ShellCommandExecException.java
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org/hyperic/sigar/test/TestThreads.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/jmx/SigarInvokerJMX.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/win32/EventLogNotification.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/NfsUnreachableException.java
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org/hyperic/sigar/test/GetPass.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
org/hyperic/sigar/pager/PageFetcher.java
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org/hyperic/sigar/SigarNotImplementedException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/ org/hyperic/sigar/ProcEnv.java
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org/hyperic/sigar/shell/NormalQuitCommandException.java
* /opt/cola/permits/1004622435_1611680615.45/0/sigar-1-6-5-132-5-sources-jar/
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org/hyperic/sigar/OperatingSystem.java
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org/hyperic/sigar/SigarInvoker.java
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org/hyperic/sigar/test/TestInvoker.java
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org/hyperic/sigar/test/TestFileSystem.java
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org/hyperic/sigar/win32/test/TestService.java
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org/hyperic/sigar/test/TestCpuInfo.java
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1.39 libheimbaseheimdal 7.5.0+dfsg-1

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Source: <https://github.com/heimdal/heimdal>

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@comment node-name, next, previous, up

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GSS-API mechglue layer.

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@heading PADL Software Pty Ltd

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java

* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java

* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksAuthRequest.java

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksCommonUtils.java

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

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jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1-jar/io/netty/handler/codec/socks/SocksCmdStatus.java

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jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
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1.42 junixsocket-native-common 2.3.2

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```
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1.43 javax-interceptor-api 1.2

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* /opt/cola/permits/1099333531_1602486269.53/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java

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* /opt/cola/permits/1099333531_1602486269.53/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-2.0.xsd

* /opt/cola/permits/1099333531_1602486269.53/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-2.0.xsd

* /opt/cola/permits/1099333531_1602486269.53/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/overview.html

* /opt/cola/permits/1099333531_1602486269.53/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.0.xsd

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-1.0.xsd

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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/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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/**

* <p>

* 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.

* </p>

* <p>

* Script expressions can be written in any scripting or expression language,

* for which a JSR 223

* ("Scripting for the JavaTM 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.

</p>
 <p>
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:

```
</pre>
* { @code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
```

</pre>
 <p>
 * Can be specified on any method or constructor.

</p>
 *
 * @author Gunnar Morling
 */

Found in path(s):

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/HibernateValidatorPermission.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod10CheckValidator.java

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ComposingConstraintTree.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForDate.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/defs/SizeDef.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/ISBNValidator.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/MinValidatorForMonetaryAmount.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/ConstraintMapping.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/classhierarchy/Filters.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForLocalTime.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/validationcontext/ReturnValueExecutableValidationContext.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/valuecontext/BeanValueContext.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/constraints/Currency.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/xml/mapping/AbstractMultiValuedElementStaxBuilder.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForMinguoDate.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/defs/PastDef.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/path/NodeImpl.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/xml/mapping/AbstractConstrainedElementStaxBuilder.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/AbstractPastEpochBasedValidator.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/NegativeValidatorForMonetaryAmount.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/EANValidator.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/defs/CodePointLengthDef.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/spi/scripting/ScriptEvaluator.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorHelper.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethod.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/spi/nodenameprovider/PropertyNodeNameProvider.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/br/CPFValidator.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/spi/nodenameprovider/Property.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/ShortArrayValueExtractor.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/package-info.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForBigInteger.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForMonthDay.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java

* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalIntValueExtractor.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/resolver/JPATraversableResolver.java

1.45 libgssapiheimdal 7.5.0+dfsg-1

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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@vskip 20pt plus 1fil
@end macro
```

```
@macro copyrightstart{ }
@end macro
```

```
@macro copyrightend{ }
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top
@comment node-name, next, previous, up
@appendix Copyrights and Licenses
```

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```
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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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

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```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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1.48 qemu-block-extra 2.11+dfsg-1ubuntu7.39

1.48.1 Available under license :

```
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 * FreeBSD strace list
 *
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```

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 */

```
{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
```

```

{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL },
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %#o, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\\\"%s\\\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \\\"%s\\\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\\\"%s\\\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\\\"%s\\\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\\\"%s\\\",\\\"%s\\\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },

```

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{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writew, "writew", "%s(%d,%p,%#x)", NULL, NULL },

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

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1.49 commons-configuration 1.5

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1.50 xerces-j 2.7.1

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1.52 shiro-crypto-cipher 1.7.1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.55 hdrhistogram 2.1.12

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* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/WriterReaderPhaser.java

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*/

Found in path(s):

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-

jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/Base64Helper.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PackedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/PackedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-
jar/org/HdrHistogram/DoubleHistogramIterationValue.java

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentHistogram.java

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*  
* @author Gil Tene  
*/
```

Found in path(s):

* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogram.java

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```
/*  
* package-info.java  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-info.java
```

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```
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```

```
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```

```
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
```

```
*
```

```
* @author Gil Tene
```

```
*/
```

```
package org.HdrHistogram;
```

```
final class Version {
```

```
    public static final String version="$VERSION$";
```

```
    public static final String build_time="$BUILD_TIMES$";
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template
```

1.56 libsemanage 2.7 2build2

1.56.1 Available under license :

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Version 2.1, February 1999

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Eclipse

The following artifacts are EPL.

- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.58 httpcomponents-mime 4.5.13

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```
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
```

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Found in path(s):

```
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/IOvArray.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
```

jar/io/netty/channel/unix/package-info.java

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Found in path(s):

* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

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* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_jni.h

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* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_buffer.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/Buffer.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_buffer.h

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* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_socket.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_socket.h
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_errors.h
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/netty_unix_errors.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-jar/io/netty/channel/unix/Errors.java

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* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-

```
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/netty_unix_util.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/netty_unix_limits.c
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/netty_unix_limits.h
* /opt/cola/permits/1283432436_1646722314.37/0/netty-transport-native-unix-common-4-1-46-final-sources-
jar/netty_unix_util.h
```

1.64 dash 0.5.8 2.10

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1.65 log4j-jcl 2.17.0

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1.66 metrics-annotation 3.1.2

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```
*/opt/cola/permits/1283432582_1646721953.19/0/metrics-annotation-3-1-2-sources-
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```

1.67 Iz4 0.0~r131-2ubuntu3.1

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1.68 shiro-config-ogdl 1.7.1

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1.69 libcap-ng 0.7.7 3.1

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1.74 hazelcast-kubernetes 1.0.0

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```
* /opt/cola/permits/1283432902_1646723438.99/0/hazelcast-kubernetes-1-0-0-sources-  
jar/com/hazelcast/kubernetes/ServiceEndpointResolver.java  
* /opt/cola/permits/1283432902_1646723438.99/0/hazelcast-kubernetes-1-0-0-sources-  
jar/com/hazelcast/kubernetes/HazelcastKubernetesDiscoveryStrategy.java  
* /opt/cola/permits/1283432902_1646723438.99/0/hazelcast-kubernetes-1-0-0-sources-  
jar/com/hazelcast/kubernetes/HazelcastKubernetesDiscoveryStrategyFactory.java  
* /opt/cola/permits/1283432902_1646723438.99/0/hazelcast-kubernetes-1-0-0-sources-  
jar/com/hazelcast/kubernetes/DnsEndpointResolver.java  
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jar/com/hazelcast/kubernetes/KubernetesProperties.java  
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com.hazelcast.kubernetes.HazelcastKubernetesDiscoveryStrategyFactory
```

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1.75 activation-api 1.2.0

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AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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lib/hcrypto/test_dh.c

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```
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1.80 quartz 2.3.2

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jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
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jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/Log.java
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1.82 bean-validation-api 2.0.1.Final

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1.83 jackson-annotations 2.12.1

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1.84 hazelcast 3.12.3

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1.85 jersey-client 2.30.1

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```
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- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/RequiredModifiers.java
- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/Var.java
- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/ForOverride.java
- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompileTimeConstant.java
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- * /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

1.87 mapdb 1.0.6

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1.88 p11-kit 0.23.9-2ubuntu0.1

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1.89 commons-dbcP 1.4

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1.90 jetty-util 9.4.31.v20200723

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- org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.91 kubernetes-model-common 5.4.1

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Found in path(s):

* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml

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Found in path(s):

* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-jar/io.fabric8/kubernetes/model/annotation/Generated.java

* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-jar/io.fabric8/kubernetes/model/annotation/Kind.java

* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-

jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/ShortNames.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Version.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/PackageSuffix.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Plural.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/Scope.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Group.java
* /opt/cola/permits/1283431262_1646723909.76/0/kubernetes-model-common-5-4-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Singular.java

1.92 selinux 2.7-2build2

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<http://userspace.selinuxproject.org/trac/wiki/Releases>

This package was debianized by Colin Walters <walters@debian.org> on
Thu, 3 Jul 2003 17:10:57 -0400.

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.93 libnspr 4.18-1ubuntu1

1.93.1 Available under license :

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/logging/LogLevel.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/NotSslRecordException.java
```

* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/timeout/IdleState.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslHandler.java
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- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/address/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java

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- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ocsp/package-info.java

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNames.java

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
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- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslClientContext.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslUtils.java
- * /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java

* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PemReader.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SslProvider.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java

* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngineMap.java

1.95 ncurses 6.1-1ubuntu1.18.04

1.95.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

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

Files: *

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-- vile:txtmode file-encoding=utf-8

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-- vile:txtmode fc=72

-- \$Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp \$

Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

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

Files: *

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Files: aclocal.m4 package

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Files: doc/html/NCURSES-Programming-HOWTO.html

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Files: progs/tset.c ncurses/tinfo/read_termcap.c

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

Files: *

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-- vile: txtmode file-encoding=utf-8

1.96 ini4j 0.5.4

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1.97 libidn 2.0.4-1.1ubuntu0.2

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1.98 dom4j 2.1.3

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Found in path(s):

- * /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-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/dtd/ElementDecl.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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jar/org/dom4j/rule/Stylesheet.java
* /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-
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-

jar/org/dom4j/dom/DOMEntityReference.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/FlyweightAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/DocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/tree/DefaultDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/DocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/io/SAXModifyElementHandler.java
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jar/org/dom4j/util/NodeComparator.java
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jar/org/dom4j/ProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
jar/org/dom4j/util/UserDataElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-
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1.99 commons-digester 2.1

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1.103 shiro 1.7.1

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1.104 jetty-webapp 9.4.31.v20200723

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Eclipse

The following artifacts are EPL.

- * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- * javax.servlet:javax.servlet-api
- * javax.annotation:javax.annotation-api
- * javax.transaction:javax.transaction-api
- * javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by

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1.105 librbd 12.2.13-0ubuntu0.18.04.10

1.105.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ceph

Upstream-Contact: Sage Weil <sage@newdream.net>

Source: <http://ceph.com/>

Files-Excluded:

debian

src/civetweb/examples/websocket_client/ssl/server.key.orig

src/civetweb/resources/cert/client.key.orig

src/civetweb/resources/cert/server.key.orig

src/erasure-code/jerasure/jerasure/Examples/makefile.orig

src/erasure-code/jerasure/jerasure/include/config.h.in~

src/erasure-code/jerasure/jerasure/makefile.orig

Files: *

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2014 Adam Crume <adamcrume@gmail.com>

2012 Florian Haas, hastexo

2010 Greg Farnum <gregf@hq.newdream.net>

2014 John Spray <john.spray@inktank.com>

2004-2012 New Dream Network

2014 Sebastien Ponce <sebastien.ponce@cern.ch>

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2013-2014 UnitedStack <haomai@unitedstack.com>

2011 Wido den Hollander <wido@widodh.nl>

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Files: src/erasure-code/jerasure/ErasureCode*

src/erasure-code/ErasureCode*

src/erasure-code/isa/*

src/include/str_map.h

src/test/common/test_str_map.cc

src/test/erasure-code/*

src/test/rgw/test_rgw_manifest.cc

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Files: src/mount/canonicalize.c

src/test/common/test_config.cc
src/test/crush/TestCrushWrapper.cc
src/test/common/Throttle.cc
src/test/objectstore/chain_xattr.cc
src/test/mon/mon-test-helpers.sh
src/test/objectstore/chain_xattr.cc
src/test/osd/osd-test-helpers.sh
src/ceph-disk
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src/test/mon/PGMap.cc

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.

<http://burtleburtle.net/bob/hash/evahash.html>

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Files: src/common/bloom_filter.hpp

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<https://bitbucket.org/jimplank/gf-complete>

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src/java/native/JniConstants.*
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Comment:

"mount/fstab.c" from line 559:

<https://git.kernel.org/cgit/utls/util-linux/util-linux.git/tree/mount-deprecated/fstab.c?h=v2.22#n559>

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Files: src/test/librbd/fsx.c

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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b) Accompany the work with a written offer, valid for at

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

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

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1.113 libpng 1.6.37

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#

io.fabric8.kubernetes.client.URLFromEnvVarsImpl

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- * /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/io/fabric8/kubernetes/client/dsl/internal/PodMetricOperationsImpl.java
- * /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/io/fabric8/kubernetes/client/FromServerGettable.java
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jar/io/fabric8/kubernetes/client/URLFromEnvVarsImpl.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/RequestConfigHolder.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/base/ConfigAndApiGroupsInfo.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/KubernetesListOperationsImpl.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V2beta2AutoscalingAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ImageEditReplacePatchable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/CopyOrReadable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/informers/cache/SharedProcessor.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1PolicyAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/Utils/ApiVersionUtil.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/internal/KubeConfigUtils.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/CreateFromServerGettable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-

jar/io/fabric8/kubernetes/client/CodeGen.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/utils/Serialization.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/NamespacedKubernetesClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1beta1SchedulingAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1AuthorizationAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/DefaultOperationInfo.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1beta1DiscoveryAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1NetworkAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/informers/SharedInformerEventListener.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1AuthorizationAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ReplicationControllerOperationsImpl.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1BatchAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1DiscoveryAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/AuthorizationAPIGroupClient.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Tailable.java
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jar/io/fabric8/kubernetes/client/AuthorizationAPIGroupExtensionAdapter.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/MetricAPIGroupClient.java
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jar/io/fabric8/kubernetes/client/Watcher.java
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jar/io/fabric8/kubernetes/client/informers/ListerWatcher.java
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jar/io/fabric8/kubernetes/client/NetworkAPIGroupClient.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/internal/serializationmixins/ObjectMetaMixIn.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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jar/io/fabric8/kubernetes/client/dsl/internal/extensions/v1beta1/DeploymentRollingUpdater.java
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jar/io/fabric8/kubernetes/client/V2beta1AutoscalingAPIGroupClient.java
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jar/io/fabric8/kubernetes/client/internal/CertUtils.java
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jar/io/fabric8/kubernetes/client/dsl/NamespaceVisitFromServerGetWatchDeleteRecreateWaitApplicable.java
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jar/io/fabric8/kubernetes/client/dsl/TtyExecOutputErrorable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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jar/io/fabric8/kubernetes/client/V1beta1EventingAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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jar/io/fabric8/kubernetes/client/EventingAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/StorageAPIGroupExtensionAdapter.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchDeletable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1ApiextensionAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/StorageAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Readable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/FlowControlAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1FlowControlAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-

jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ComponentStatusOperationsImpl.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/extensions/v1beta1/ReplicaSetRollingUpdater.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Uploadable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/extended/leaderelection/LeaderCallbacks.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/AppsAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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jar/io/fabric8/kubernetes/client/V1AdmissionRegistrationAPIGroupClient.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Requirable.java
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-

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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1AdmissionRegistrationAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Nameable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/base/WaitForConditionWatcher.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/dsl/Copiable.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/CertificatesAPIGroupExtensionAdapter.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
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jar/io/fabric8/kubernetes/client/PolicyAPIGroupExtensionAdapter.java
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jar/io/fabric8/kubernetes/client/dsl/V1beta1BatchAPIGroupDSL.java
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-
jar/io/fabric8/kubernetes/client/informers/SharedIndexInformer.java
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```
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/resource-operation.vm
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/resource-handler-services.vm
* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/resource-handler.vm
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```

```
io.fabric8.kubernetes.client.AppsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta2AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ExtensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.EventingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1EventingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1EventingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.FlowControlAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1FlowControlAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.MetricAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.PolicyAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1PolicyAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1PolicyAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.RbacAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1SchedulingAPIGroupExtensionAdapter
```

io.fabric8.kubernetes.client.V1beta1SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.StorageAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1APIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.DiscoveryAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1DiscoveryAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.CertificatesAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1CertificatesAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1CertificatesAPIGroupExtensionAdapter

Found in path(s):

* /opt/cola/permits/1283431052_1646721346.01/0/kubernetes-client-5-4-1-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ExtensionAdapter

1.116 giflib 5.2.1

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1.117 netty-handler-proxy 4.1.49.Final

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* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-jar/io/netty/handler/proxy/package-info.java

* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

```
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-  
jar/io/netty/handler/proxy/ProxyConnectException.java  
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-  
jar/io/netty/handler/proxy/ProxyHandler.java  
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-  
jar/io/netty/handler/proxy/Socks5ProxyHandler.java
```

1.118 jackson-dataformat-yaml 2.11.2

1.118.1 Available under license :

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1.119 spring-jdbc 2.5.6

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1.120 shiro-spring 1.7.1

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1.121 saaj 1.5.2

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1.123 shiro-crypto-hash 1.7.1

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1.124 vertx-unit 3.9.4

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Written by: Philip Hazel
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1.128 ejb-api 3.0-alpha-1

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1.129 perl 5.26.1 6ubuntu0.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
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repository: <http://github.com/dagolden/module-build/>
version: 3

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```

```
<signature of Ty Coon>, 1 April 1989
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<one line to give the program's name and a brief idea of what it does.>

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the

commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut


```

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/= "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

```

```

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}

```

1.130 libffi 3.2.1 8

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This package was debianized by Matthias Klose <doko@debian.org>
on Mon, 10 Mar 2008 05:46:40 +0000.

It was downloaded from <ftp://sourceware.org/pub/libffi/>

Upstream Authors:

Anthony Green <green@redhat.com>

GCC developers

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1.131 libsigar 1.6.5

1.131.1 Available under license :

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Version 2.0, January 2004

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1.132 xstream 1.4.17

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Created on 29. July 2006 by Mauro Talevi

Found in path(s):

* /opt/cola/permits/1166458259_1621426611.06/0/xstream-1-4-17-jar/META-
INF/maven/com.thoughtworks.xstream/xstream/pom.xml

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

Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.17
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-05-14T08:20:36Z
X-Builder: Maven 3.8.1
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1620980458866
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: <http://x-stream.github.io>
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.17
Export-Package: com.thoughtworks.xstream;version="1.4.17",com.thoughtworks.xstream.annotations;version="1.4.17",com.thoughtworks.xstream.converters;version="1.4.17",com.thoughtworks.xstream.converters.basic;version="1.4.17",com.thoughtworks.xstream.converters.collections;version="1.4.17",com.thoughtworks.xstream.converters.enums;version="1.4.17",com.thoughtworks.xstream.converters.extended;version="1.4.17",com.thoughtworks.xstream.converters.javabean;version="1.4.17",com.thoughtworks.xstream.converters.reflection;version="1.4.17",com.thoughtworks.xstream.converters.time;version="1.4.17",com.thoughtworks.xstream.core;version="1.4.17",com.thoughtworks.xstream.io;version="1.4.17",com.thoughtworks.xstream.io.binary;version="1.4.17",com.thoughtworks.xstream.io.copy;version="1.4.17",com.thoughtworks.xstream.io.json;version="1.4.17",com.thoughtworks.xstream.io.naming;version="1.4.17",com.thoughtworks.xstream.io.path;version="1.4.17",com.thoughtworks.xstream.io.xml;version="1.4.17",com.thoughtworks.xstream.io.xml.xppdom;version="1.4.17",com.thoughtworks.xstream.mapper;version="1.4.17",com.thoughtworks.xstream.persistence;version="1.4.17",com.thoughtworks.xstream.security;version="1.4.17"
Import-Package: org.xmlpull.mxp1;resolution:=optional,org.xmlpull.v1;resolution:=optional,io.github.xstream.mxparser;resolution:=optional;version="[1.2,2)",com.ibm.xml.xpath.api.stax;resolution:=optional,com.sun.xml.internal.stream;resolution:=optional,javax.activation;resolution:=optional,javax.security.auth;resolution:=optional,javax.swing;res

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resolution:=optional,org.xml.sax.helpers;resolution:=optional,sun.mis
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ion="[1.6,2)";resolution:=optional,org.joda.time.format;version="[1.6
,2)";resolution:=optional,org.kxml2.io;resolution:=optional,org.w3c.d
om;resolution:=optional
JAVA_1_4_HOME: /opt/blackdown-jdk-1.4.2.03
JAVA_1_5_HOME: /opt/sun-jdk-1.5.0.22
JAVA_1_6_HOME: /opt/sun-jdk-1.6.0.45
JAVA_1_7_HOME: /opt/oracle-jdk-bin-1.7.0.80
JAVA_1_8_HOME: /opt/oracle-jdk-bin-1.8.0.202
JAVA_9_HOME: /opt/oracle-jdk-bin-9.0.4
Tool: Bnd-2.4.1.201501161923

Found in path(s):

* /opt/cola/permits/1166458259_1621426611.06/0/xstream-1-4-17-jar/META-INF/MANIFEST.MF

1.133 antlr 2.7.7

1.133.1 Available under license :

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ANTLR 1989-2006 Developed by Terence Parr

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The primary ANTLR guy:

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parrt@antlr.org

1.134 jsr305 3.0.2

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```
/*  
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* Official home: http://www.jcip.net  
*/
```

Found in path(s):

```
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/GuardedBy.java  
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/ThreadSafe.java  
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/Immutable.java  
* /opt/cola/permits/1135861076_1613617584.8/0/jsr305-3-0-2-sources-4-  
jar/javax/annotation/concurrent/NotThreadSafe.java
```

1.135 swagger-annotations 1.5.20

1.136 jaxb-api 2.3.1

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1.137 xml-commons-resolver 1.2

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1.143 commons-text 1.9

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1.144 profiler 1.1.1

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* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java  
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java  
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-  
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```

1.145 libibverbs1 17.1-1ubuntu0.2

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,
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1.146 flex-json 2.1

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1.147 spring-beans 4.3.22.RELEASE

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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/MapFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/ObjectFactory.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/CachedIntrospectionResults.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/parsing/ReaderContext.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/InjectionPoint.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/PropertyAccessor.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/parsing/Problem.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/config/CustomScopeConfigurer.java

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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/parsing/BeanComponentDefinition.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/PropertyAccessException.java
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```
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/BeanCreationException.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/NamedBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/FactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
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jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
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jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
```

jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
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jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-

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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-
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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/TypeMismatchException.java
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* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java

* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/PropertyValuesEditor.java

* /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java

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- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/support/SortDefinition.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/MethodInvocationException.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/PropertyValues.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/annotation/Configurable.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/parsing/ParseState.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
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- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
- * /opt/cola/permits/1141041592_1614924789.21/0/spring-beans-4-3-22-release-sources-3-jar/org/springframework/beans/factory/support/ManagedProperties.java
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jar/io/netty/resolver/dns/DnsNameResolverException.java
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jar/io/netty/resolver/dns/DnsServerAddressStream.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
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jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/NoopDnsCache.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/NameServerComparator.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCnameCache.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DirContextUtils.java

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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DnsQueryContext.java

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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
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* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/DatagramDnsQueryContext.java

* /opt/ws_local/PERMITS_SQL/1068720131_1594427102.23/0/netty-resolver-dns-4-1-49-final-sources-1-jar/io/netty/resolver/dns/TcpDnsQueryContext.java

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

- * A rewrite of the original Debian's start-stop-daemon Perl script
- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.153 shiro-cache 1.7.1

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1.154 base-passwd 3.5.44

1.154.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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Files: doc/*

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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
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- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PoolChunkList.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PooledByteBufAllocator.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBuf.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PoolChunk.java
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- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/SwappedByteBuf.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractByteBuf.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBufOutputStream.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/SlicedByteBuf.java
- * /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/Unpooled.java
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jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
jar/io/netty/buffer/UnpooledDirectByteBuf.java
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jar/io/netty/buffer/PoolSubpage.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/UnsafeByteBufUtil.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/SearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/FixedCompositeByteBuf.java

* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/UnreleasableByteBuf.java

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Found in path(s):

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RouteState.java

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/MultiTenantHandlerImpl.java

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RouterState.java

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/MultiTenantHandler.java

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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/ResponseContentTypeHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ResponseContentTypeHandler.java
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Found in path(s):

```

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/SockJSHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/XhrTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/EventSourceTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/BaseTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/SockJSSocketBase.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/SockJSSession.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/EventBusBridgeImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/TransportListener.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-

```

jar/io/vertx/ext/web/handler/sockjs/impl/HtmlFileTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/JsonCodec.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/SockJSSocket.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/WebSocketTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/RawWebSocketTransport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/Transport.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/impl/JsonPTransport.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/FaviconHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/DigestAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/sstore/impl/LocalSessionStoreImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/UserHolder.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/Router.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/BridgeEvent.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/SessionHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/TimeoutHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-

jar/io/vertx/ext/web/handler/LoggerHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/RouterImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/UserSessionHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/SockJSBridgeOptions.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/FileUploadImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/AuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/ChainAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/FaviconHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/RoutingContextImplBase.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/CorsHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/sstore/impl/ClusteredSessionStoreImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/ConcurrentLRUCache.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/ErrorHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/ErrorHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/FormLoginHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/OAuth2AuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/BodyHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/CookieImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/OAuth2AuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/Session.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/RedirectAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/CookieHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/TemplateHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/sockjs/SockJSHandlerOptions.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/LoggerHandlerImpl.java

* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/templ/CachingTemplateEngine.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/FileUpload.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/AuthorizationAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ResponseTimeHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/BridgeEventImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/AbstractSession.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/RedirectAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/VirtualHostHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/SessionHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/Locale.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/BodyHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/FormLoginHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/ResponseTimeHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RoutingContextWrapper.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/LocalSessionStore.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/Utils.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/BasicAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/StaticHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/JWTAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RoutingContextImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/VirtualHostHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/SessionStore.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/JWTAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/CorsHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/TemplateHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-

jar/io/vertx/ext/web/handler/TimeoutHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/sstore/ClusteredSessionStore.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/DigestAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/CookieHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/AuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/Route.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/templ/TemplateEngine.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/RouteImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/StaticHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/sstore/impl/SharedDataSessionImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/LoggerFormat.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/BasicAuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/LRUCache.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/impl/BlockingHandlerDecorator.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/impl/UserSessionHandlerImpl.java
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```
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ParameterizedType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/Utils.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/FieldInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/MethodInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ThrowsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/EmptyTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
```

jar/org/jboss/jandex/IndexWriterImpl.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/VoidType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexReaderImpl.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ArrayType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexWriterV2.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/MethodInternal.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/WildcardType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/GenericSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeVariable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexReaderV2.java

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* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriter.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/DotName.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInternal.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/NameTable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/CompositeIndex.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriterV1.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexView.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/StrongInternPool.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Indexer.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JandexAntTask.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfo.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReaderV1.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Result.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Index.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationValue.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PrimitiveType.java


```
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/Main.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/AnnotationInstance.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexReader.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/Type.java
```

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
```

jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/Beta.java

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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/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TransformedIterator.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredKeySetMultimap.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingNavigableSet.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TransformedListIterator.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingBlockingDeque.java
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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactHashSet.java
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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeMap.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedMultisetBridge.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredMultimap.java
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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/DescendingImmutableSortedSet.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactLinkedHashMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EvictingQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredEntryMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TreeTraverser.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Floats.java

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 */
```

```
/**
```

```
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
 * version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/IntsMethodsForWeb.java
```

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*/
/**
* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/IndexedImmutableSet.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Function.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Files.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableSoftReference.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Throwables.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFuture.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/package-info.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableWeakReference.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteStreams.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/AllowConcurrentEvents.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LineBuffer.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataOutputStream.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Preconditions.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharStreams.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Functions.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataInputStream.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Charsets.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Suppliers.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Resources.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Objects.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Supplier.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractFuture.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/AbstractIterator.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionList.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/IncidentEdgeSet.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/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Partially.java
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jar/com/google/common/base/MoreObjects.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/Dispatcher.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/Quantiles.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/Subscriber.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
```

jar/com/google/common/eventbus/SubscriberRegistry.java

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jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Table.java
```

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableMap.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonMatcher.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/package-info.java

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```
*/
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 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
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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.
 */
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SortedMultiset.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LittleEndianByteArray.java

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*/

/**

* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractIndexedListAdapter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableSortedSet.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AtomicLongMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractRangeSet.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableDoubleArray.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingLock.java
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*/

/**

* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Internal.java

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jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MultimapBuilder.java
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jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
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* the License.
*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
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jar/com/google/common/util/concurrent/MoreExecutors.java
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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
* following header:
*
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
* hereby disclaims copyright to this source code.
*/
```


Found in path(s):

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/SmallCharMatcher.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.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

*

* <p>TODO(kevinb): support concurrently modified collections?

*

* @param c the collection for which to return an array of elements

*/

Found in path(s):

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ObjectArrays.java

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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/MinMaxPriorityQueue.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedMapDifference.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RowSortedTable.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableCollection.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSequentialIterator.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableListIterator.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java
- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingListMultimap.java

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- * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/LinkedHashMapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/HashMapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ElementOrder.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/Stats.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/Graphs.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/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
/*
 * 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
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby disclaims copyright to this source code.
 */

```

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```

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```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/IgnoreJRERequirement.java
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jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/FunctionalEquivalence.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Present.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/ForwardingLoadingCache.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Absent.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/Weigher.java

* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Uninterruptibles.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractStreamingHasher.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/Cache.java

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 */
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Found in path(s):

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
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jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractBaseGraph.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableTable.java

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jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsMultiFormatView.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/FlashMap.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/ArgumentAware.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractExcelView.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdviceAdapter.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/AbstractTemplateView.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerExceptionHandlerResolver.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceResolver.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/TransformTag.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/EncodedResource.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/ParamTag.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsxView.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/TransformedResource.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/VersionStrategy.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java

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* limitations under the License.  
*/  
/**  
* A contract for inspecting and potentially modifying request data values such  
* as URL query parameters or form field values before they are rendered by a  
* view or before a redirect.  
*  
* <p>Implementations may use this contract for example as part of a solution  
* to provide data integrity, confidentiality, protection against cross-site  
* request forgery (CSRF), and others or for other tasks such as automatically  
* adding a hidden field to all forms and URLs.  
*  
* <p>View technologies that support this contract can obtain an instance to  
* delegate to via { @link RequestContext#getRequestDataValueProcessor() }.  
*  
* @author Rossen Stoyanchev
```

* @since 3.1

*/

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

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/**

* XSLT-driven View that allows for response context to be rendered as the

* result of an XSLT transformation.

*

* <p>The XSLT Source object is supplied as a parameter in the model and then
* { @link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the model via the { @link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See { @link #getSourceTypes() here}
* for more details.

*

* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure { @link #setOutputProperties output properties}
* to be passed to the Transformer.

*

* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0

*/

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/xslt/XsltView.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/HeadersRequestCondition.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerViewResolver.java

* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/tiles2/SpringLocaleResolver.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java

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jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
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jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
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- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/velocity/VelocityView.java
- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/ThemeResolver.java
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- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
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- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/tags/BindTag.java
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- * /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
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jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java

1.161 diffutils 3.6-1

1.161.1 Available under license :

This is the Debian prepackaged version of the GNU diffutils package.

GNU `diff` was written by Mike Haertel, David Hayes, Richard Stallman,

Len Tower, and Paul Eggert. Wayne Davison designed and implemented

the unified output format. GNU `diff3` was written by Randy Smith.

GNU `sdiff` was written by Thomas Lord. GNU `cmp` was written by

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AopConfigUtils.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AopNamespaceUtils.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/StaticMethodMatcher.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcher.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/ProxyProcessorSupport.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
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- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/AfterReturningAdvice.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/IntroductionInfo.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/PointcutEntry.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/DebugInterceptor.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/AopInvocationException.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AopConfigException.java
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- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AopProxy.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/adaptor/GlobalAdvisorAdapterRegistry.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/PointcutAdvisor.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/DelegatePerTargetObjectIntroductionInterceptor.java
- * /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistrationManager.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/TruePointcut.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/SimpleBeanTargetSource.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/EmptyTargetSource.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/adaptor/UnknownAdviceTypeException.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/MethodBeforeAdvice.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/TrueClassFilter.java

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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AdvisorComponentDefinition.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/adaptor/DefaultAdvisorAdapterRegistry.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java

* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java


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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
jar/org/springframework/aop/target/PoolingConfig.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
jar/org/springframework/aop/target/dynamic/Refreshable.java
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```

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- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/group/ChannelMatcher.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ConnectTimeoutException.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultChannelProgressivePromise.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/bootstrap/ChannelFactory.java
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- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SimpleChannelInboundHandler.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/group/ChannelGroupException.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DefaultAddressedEnvelope.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelProgressiveFutureListener.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/AddressedEnvelope.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelHandlerAdapter.java
- * /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/ChannelProgressivePromise.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/ChannelOutboundBuffer.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/ChannelId.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:

*

* { @link ChannelInboundHandler } to handle inbound I/O events, and

* { @link ChannelOutboundHandler } to handle outbound I/O operations.

*

* </p>

* <p>

* Alternatively, the following adapter classes are provided for your convenience:

*

* { @link ChannelInboundHandlerAdapter } to handle inbound I/O events,

* { @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and

* { @link ChannelDuplexHandler } to handle both inbound and outbound events

*

* </p>

* <p>

* For more information, please refer to the documentation of each subtype.

* </p>

*

* <h3>The context object</h3>

```

* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
*
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);

```

```

*   }
* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* </pre>
*
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);

```

```

*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelHandler.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SimpleUserEventChannelHandler.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SelectStrategy.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/WriteBufferWaterMark.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java

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jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/pool/AbstractChannelPoolMap.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/pool/ChannelHealthChecker.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/FailedChannelFuture.java

* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/DefaultChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/Channel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/AbstractChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/local/LocalAddress.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/DatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/DefaultFileRegion.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelPromise.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/nio/NioTask.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/bootstrap/ServerBootstrap.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/oio/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/AbstractChannelHandlerContext.java
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jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/RecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/ChannelFlushPromiseNotifier.java
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jar/io/netty/channel/socket/oio/OioDatagramChannel.java
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jar/io/netty/bootstrap/AbstractBootstrap.java
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jar/io/netty/channel/oio/OioEventLoopGroup.java
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jar/io/netty/channel/nio/AbstractNioByteChannel.java
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jar/io/netty/channel/FileRegion.java
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jar/io/netty/channel/embedded/package-info.java
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jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
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jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/SingleThreadEventLoop.java
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jar/io/netty/channel/ChannelFutureListener.java
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jar/io/netty/channel/ChannelFuture.java
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jar/io/netty/channel/ChannelPipelineException.java
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jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-

jar/io/netty/channel/ChannelDuplexHandler.java
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jar/io/netty/channel/ChannelPromiseNotifier.java
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jar/io/netty/channel/group/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelOption.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedChannel.java
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jar/io/netty/channel/local/LocalServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/ChannelPromiseAggregator.java
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jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
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jar/io/netty/channel/ChannelInboundHandler.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/local/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/DatagramPacket.java
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jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
jar/io/netty/channel/socket/nio/package-info.java
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jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/internal/ChannelUtils.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java
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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java

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@c End:
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java
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Found in path(s):

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/InetAddressResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/CompositeNameResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/HostsFileParser.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/AddressResolver.java

* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

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jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/HostsFileEntries.java
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jar/io/netty/resolver/NoopAddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/NoopAddressResolver.java
```

```
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232293_1594320747.73/0/netty-resolver-4-1-49-final-sources-1-
jar/io/netty/resolver/RoundRobinInetAddressResolver.java
```

1.170 metrics-servlets 4.1.9

1.170.1 Available under license :

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1.171 ceph 12.2.13-0ubuntu0.18.04.10

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Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: ceph

Upstream-Contact: Sage Weil <sage@newdream.net>

Source: <http://ceph.com/>

Files-Excluded:

debian

src/civetweb/examples/websocket_client/ssl/server.key.orig

src/civetweb/resources/cert/client.key.orig

src/civetweb/resources/cert/server.key.orig

src/erasure-code/jerasure/jerasure/Examples/makefile.orig

src/erasure-code/jerasure/jerasure/include/config.h.in~

src/erasure-code/jerasure/jerasure/makefile.orig

Files: *

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2011 Wido den Hollander <wido@widodh.nl>

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Files: src/erasure-code/jerasure/ErasureCode*

src/erasure-code/ErasureCode*
src/erasure-code/isa/*
src/include/str_map.h
src/test/common/test_str_map.cc
src/test/erasure-code/*
src/test/rgw/test_rgw_manifest.cc

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Files: src/mount/canonicalize.c

src/test/common/test_config.cc
src/test/crush/TestCrushWrapper.cc
src/test/common/Throttle.cc
src/test/objectstore/chain_xattr.cc
src/test/mon/mon-test-helpers.sh
src/test/objectstore/chain_xattr.cc
src/test/osd/osd-test-helpers.sh
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src/stop.sh

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src/java/native/JniConstants.*

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"mount/fstab.c" from line 559:

<https://git.kernel.org/cgit/utls/util-linux/util-linux.git/tree/mount-deprecated/fstab.c?h=v2.22#n559>

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Comment:

<http://codemonkey.org.uk/projects/fsx/>

<http://codemonkey.org.uk/projects/fsx/fsx-macosforge/fsx.c>

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1.175 jetty-jndi 9.4.31.v20200723

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.176 latencyutils 2.0.3

1.177 debianutils 4.8.4

1.177.1 Available under license :

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1.178 glib 2.56.4-Ubuntu0.18.04.9

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1.179 heimdal 7.5.0+dfsg-1

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GSS-API mechglue layer.

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.181 audit4j-core 2.6.0

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1.182 vertx-bridge-common 3.9.4

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1.183 curl 7.58.0 2ubuntu3.16

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1.184 glibc 2.27-3ubuntu1.5

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 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
```



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* Allowing them being read would mean anyone with access to the channel could get them.
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* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java

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* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/Epoll.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/package-info.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java

* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

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* /opt/cola/permits/1283431041_1646722067.76/0/netty-transport-native-epoll-4-1-46-final-sources-jar/io/netty/channel/epoll/Native.java

1.186 libsigar 1.6.6

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1.187 failureaccess 1.0.1

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- * /opt/cola/permits/1199742917_1630577017.47/0/failureaccess-1-0-1-sources-3-jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.188 jakarta-annotation-api 1.3.5

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1.189 jboss-transaction-api 1.1.1.Final

1.190 commons-pool 1.5.6

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1.191 cdebconf 0.213ubuntu1

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1.192 vertx-auth-common 3.9.4

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```
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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/hash/PBKDF2.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/JWTOptions.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashingStrategy.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/ChainAuth.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashString.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/hash/SHA512.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/AbstractUser.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/examples/AuthCommonExamples.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/PRNG.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/package-info.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/HashingAlgorithm.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/User.java
```

* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/AuthProvider.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/impl/ChainAuthImpl.java
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jar/io/vertx/ext/auth/impl/AuthProviderInternal.java
```

1.193 swagger 1.5.20

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3name()Ljava/lang/String;urlAnnotationDefault  
SourceFileLicense.javaRuntimeVisibleAnnotationsLjava/lang/annotation/Target;value"Ljava/lang/annotation/Eleme  
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1.194 influxdb-java 2.20

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* /opt/cola/permits/1280350859_1646202214.38/0/influxdb-java-2-20-sources-jar/org/influxdb/annotation/Measurement.java
* /opt/cola/permits/1280350859_1646202214.38/0/influxdb-java-2-20-sources-jar/org/influxdb/impl/InfluxDBResultMapper.java
* /opt/cola/permits/1280350859_1646202214.38/0/influxdb-java-2-20-sources-jar/org/influxdb/annotation/Column.java
* /opt/cola/permits/1280350859_1646202214.38/0/influxdb-java-2-20-sources-jar/org/influxdb/InfluxDBMapperException.java

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1.195 kerberos 1.16-2ubuntu0.2

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h

lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h

lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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* Tim Martin

* Rob Earhart

* Rob Siemborski

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* Tim Martin
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1.199 netty-transport-native-kqueue

4.1.46.Final

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* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-

jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/netty_kqueue_native.c
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/netty_kqueue_bsdsocket.c
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/netty_kqueue_eventarray.h
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jar/netty_kqueue_eventarray.c
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/package-info.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/BsdSocket.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-
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* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-

jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1283432362_1646722053.88/0/netty-transport-native-kqueue-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoop.java

1.200 jackson-annotations 2.10.0

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1.201 httpcomponents-client 4.5.12

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1.206 jaxb-core 2.3.1

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# COPYING.other                -*- org -*-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.209 commons-logging 1.2

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The following people donated financially to help with the release of 1.60:

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The following people donated financially to help with the release of 1.59:

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The following people and organisations donated financially to help with the release of 1.57:

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We also wish to acknowledge financial and collaborative support from CISCO and additional financial support from PrimeKey towards developing the EST API for RFC 7030 support.

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The following people and organisations donated financially to help with the release of 1.56:

DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter

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The following people and organisations donated financially to help with the release of 1.55:

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The following people and organisations donated financially to help with the release of 1.53:

Sheba, Ishmal Bartley, and Li-Chang Johnny Lo

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The following people and organisations donated financially to help with the release of 1.52:

lecker@buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

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The following people and organisations donated financially to help with the release of 1.51:

Gup & Boz @ Alki Seattle, Bytemine GmbH, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

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- Atlassian Software Systems donation of Confluence and JIRA licences.
- Grier Forensics, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
- TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: http://www.flexiprovider.de/
- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at http://voxeolabs.com
- Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.
- Additional CertPath testing and validation data from the CertPath testing tool developed by cryptosource GmbH and media Transfer AG both located in Darmstadt, Germany.
- Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

<p>

People

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- Tito Pena <Fortunato.Pena@AdNovum.CH> - initial RC5 implementation
- Michael Lee <yfl@mira.net> - initial RC6 implementation, MD2 implementation
- Nuno Santos <nsantos@student.dei.uc.pt> - finding toString bug in certificate object.
- Brett Sealey <bretts@mortbay.com> - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).
- Victor A. Salaman <salaman@teknos.com> - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.
- Eran Librach <eranl@valicert.com> - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).
- Jonathan Knudsen <jonathan@LearningPatterns.com> - porting information and restrictions when using the lightweight library with the MIDP environment.
- Markus Niedermann <markus.niedermann@softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.
- Mike Benham <moxie@thoughtcrime.org> - detection and fixing of an

incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

- Soren Hilmer <mailto:hilmer@tele.dk> - initial implementation of netscape certificate request classes.
- Uwe Guenther <mailto:uwe@cscc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
- Markus Bradtke <mailto:mab@informatik.uni-kiel.de> - fixing of a logic error in the JDKKeyStore class.
- Waclaw Sierek <mailto:waclaw.sierek@tpg.pl> - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.
- Ly-Na Phu <mailto:lyna.phu@init-consulting.de> - assistance in the addition of ISO 9796-1 padding.
- Stefan Köpsell <mailto:sk13@mail.inf.tu-dresden.de> - making the jdk 1.1 version of the collections API available. For further details see <http://sourceforge.net/projects/jcf/>
- Carmen Bastiaans <mailto:cbastiaa@microbits.com.au> - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.
- Tomas Gustavsson <mailto:tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
- Eugen Kuleshov <mailto:euxx@hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.
- Megan Woods <mailto:meganwoods@sekurafire.com> - initial implementation of ECIES.
- Christian Geuer-Pollmann <mailto:geuerp@apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.
- Michael Mühle <mailto:michael@mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.
- Michael Mansell <mailto:me@michaelmansell.com> - fixing the parsing of the empty DER set in the ASN.1 library.
- Eike Recker <mailto:eike.recker@gmx.de> - fixing misspelling of provider reference for RSA/1 and RSA/2.
- Chris Southern <mailto:CSouthern@baltimore.com> - fixing misuse of specified provider in the PKCS10 certification request class.
- Sidney Markowitz <mailto:sidney@sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.
- Chris Kerr <mailto:ckerr@filonet.ca> - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also

wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

- Mike Bean <mbean@lucentradius.com> - fixing the fall through bug in the IV algorithm parameters class.
- Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.
- Jess Garms <jgarms@yahoo.com> - fixing 112/168 key size bug for DESede key generation.
- Mike Bremford <mike@big.faceless.org> - contributing the inital PKCS7 implementation.
- Shankar Srinivasan <ssr002@yahoo.com> - S/Mime interoperability testing and debugging.
- Stef Hoeben <ilsestef@skynet.be> - adding Montgomery multiplication to the BigInteger class.
- Klaudiusz Ciosk <kciosk@max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.
- Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/Mime testing and debugging.

Interoperability with Biztalk.

- Don Hillsberry <hillsber@dialcorp.com> - S/Mime testing and debugging.
- Kazuo Furuya <kfuruya@infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny <jdnovotny@lbl.gov> - initial work on the openSSL PEM processing.
- Joel Hockey <joel.hockey@qipayments.com> - initial work on the openSSL PEM processing.
- John Steenbruggen <JohnS@geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske <justin@chapweske.com> - ordering patch for Tiger message digest.
- John Serock <jserock@hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.
- Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.
- Andre Wehnert <aw5@mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.
- Luigi Lo Iacono <lo_iacono@nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.
- Tim Sakach <tsakach@certivo.net> - SMIME v2 compatibility patches.
- Marcus Povey <mpovey@brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clau <sc2@inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.
- Nicolas Bielza <nicolas.bielza@alligacom.com> - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.
- Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes <rick.zeldes@eds.com> - initial code for CMS/SMIME CompressedData.
- Jarek Gawor <gawor@mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier <random@rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles <graham.coles@retail-logic.com> - patch to isParityAdjusted in DESKeySpec.
- Jörn von Kattchée <J.Kattchee@seeburger.de> - patch to SMIMEGenerator for

preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso <matartuso@libero.it> - picking up the possible overread in ASN1InputStream.

Julian Morrison <julian@extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein <eso@esomail.de> - fix to long conversion in clean room SecureRandom.

Jouml;rn Schwarze <JSchwarze@ulc.de> - Locale fix for the clean room JCE.

Bryan Lovquist <bkl@cps.com.au> - Other provider compatibility fixes for CMS signing.

Artem Portnoy <Artem_Portnoy@ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

Michael Hüusler <haeusler@ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.

Johan Seland <johans@netfonds.no> - general toString for BigInteger class.

Johannes Nicolai <johannes.nicolai@novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.

Marc Doberva <marc.doberva@ilex-si.com> - help in isolating the JSSE/BC RSA key issue.

Jan Dvorak <jan.dvorak@mathan.cz> - initial implementation of the light weight Null block cipher.

Joe Cohen <jcohen@forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

Chris Long<aalong@ece.cmu.edu> - adding public key decoding to PEMReader.

Hes Siemelink<hes@izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu<stefanpuiu@yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang <kaiseryang@yahoo.com> - Finding BigInteger loop problem in prime generation.

Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to fix defect in DERBMPString.equals().

Justin Kolb <jkolb@pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser <ralfhauser@gmx.ch> - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak <M_Dvorak@kb.cz> - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini <Klaus@cpqd.com.br> - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo <Olivier_Refalo@fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola <mariusz.bandola@cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein <brien.oberstein@transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.

Ian Haywood <ian@haywood.bpa.nu> - addition of getSignatureType to PGPSignature.

Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.

Andrew Thornton <andrew@caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander <gl@bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be> - help with RipeMD320

implementation.

Peter Sylvester <Peter.Sylvester@edelweb.fr>; - improvements to the ASN.1 BasicConstraints object.

Doug <ummmm@myrealbox.com>; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes <fstaes@netconsult.be>; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer <wdittmer@cs.vu.nl>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto <laperez@banxico.org.mx>; - patch to use of BitString in X.500 name.

James Wright <James_Wright@harte-hanks.com>; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford <jim@muirford.com>; - patch to PGPPrivateKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler <haeusler@ponton-consulting.de>; - extra aliases for provider.

Sai Pullabhotla <psai@linoma.com>; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller <joseph@digiweb.net.nz>; - addition of ZeroBytePadding.

Lars <xyz@sagemdenmark.dk>; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen <jeroen@vanvianen.nl>; - the Signed and Encrypted mail example.

Jun Sun <JSun@diversinet.com>; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem <pdukem@email.cz>; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva@wedoconsulting.com>; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar <alps@linuxmail.org>; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach <jgengelbach@webmethods.com>; - patch to fix isSigningKey in PGPPrivateKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug <doug@tigerprivacy.com>; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy <mmundy1@umbc.edu>; - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill@profcon.com>; - spelling patch in provider.

Breitenstrom Christian <C.Breitenstrom@systems.com>; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti@cad.it>; - patch to ordered equality test for X509Name.

Nicola Scendoni <nscendoni@babelps.it>; - patch to add sorting to CertPath validation.

Ville Skytt¨ <ville.skytta@iki.fi>; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon <bruce.gordon@savvis.net>; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley <Miles.Whiteley@savvis.net>; - "223" fix for BCPGInputStream new packets.

Albert Moliner <amoliner@evintia.com>; - initial TSP implementation.

Carlos Lozano <carlos@evintia.com>; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgado <javi@javi.codewarp.org>; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala@cern.ch>; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.

Rolf Schillinger <rolf@sir-wum.de>; - initial implementation of Attribute Certificate generation.

Sergey Bahtin <Sergey_Bahtin@yahoo.com>; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy <Franck.Leroy@keynectis.com>; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka <ymnk@jcraft.com>; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nicolay Bolshakov <tyrex@reksoft.ru>; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer <soren.hilmer@tietoenator.com>; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell <mitchell@intertrust.com>; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner <D.Eisner@seeburger.de>; - initial implementation of ISO 78164-4 padding.

Julien Pasquier <julienpasquier@free.fr>; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo <matartuso@libero.it>; - sequence patch to ASNIDump.

Andrew Paterson <andrew.paterson@burnsecs.com>; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov <vladimir.n.molotkov@intel.com>; - extensive provider exception handling compliance testing.

Florin Kollan <adlocflo@web.de>; - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev <paulvas@gmail.com>; - Initial GOST28147Mac implementation.

Tom Pesman <tom@tunix.net>; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com>; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch <Arndt.Hasch@maxence.de>; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com>; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee <dmllee@crossroads.com>; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon <md5@embody.org>; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung <t2cung@hotmail.com>; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz <cschultz@gmail.com>; - fix for InputStream constructor for

- X509V2AttributeCertificate.
- David M. Lee <dmlee@#064Crossroads.com> - implementation assistance with streaming CMS classes.
- Joel Rees <rees@#064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau <francesc.sau@#064partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@#064mac.com> - initial ECNR implementation.
- Remi Blancher <Remi.Blancher@#064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke <brianorourke@#064gmail.com> - patch for signature creation time override in OpenPGP.
- Andreas Schwier <andreas.schwier@#064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.
- David Josse <david.josse@#064transacttools.net> - Patch for trailer function in version 2 signature packets.
- Kishimoto Kazuhiko <kazu-k@#064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.
- Lawrence Tan <lwrnctan@#064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.
- Carlos Valiente <superdupont@#064gmail.com> - Addition of CRL writing to the PEMWriter class.
- Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.
- Olaf Keller, <olaf.keller.bc@#064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
- Jörg Eichhorn <eichhorn@#064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.
- Karsten Ohme <widerstand@#064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.
- Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
- CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
- Carlos Lozano Ruiz <carlos@#064tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.
- John Alfred Prufrock <j.a.prufrock@#064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.
- Stefan Neusatz Guillhen <sneusatz@#064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.
- Marzio Lo Giudice <marzio.logiudice@#064gmail.com> - fix to endianness in KDF2BytesGenerator,

additional KDF2 tests.
Georg Lippold <georg.lippold@gmx.de> - initial implementation of NaccacheStern cipher.
Chris Viles <chris_viles@yahoo.com> - fix to SignatureSubpacket critical bit setting.
Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.
Lijun Liao <https://github.com/xipki> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.
Maria Ivanova <maria.ivanova@gmail.com> - support for tags > 30 in ASN.1 parsing.
Armin Häberling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.
Marius Schilder <mschilder@google.com> - main set of test vectors for Bleichenbacher's forgery attack.
Xavier Le Vouch <xavier@brittanysoftware.com> - general code clean ups.
Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
Frank Cornelis <info@frankcornelis.be>- addition of crlAccessMethod in X509ObjectIdentifiers.
Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
Olga Käthler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
Núria Marí <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdz@rpg.pl> - addition of getTsa() to TimestampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to constructor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
- Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
- Alex Dupre <ale@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]
- Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimestampResponse.validate().
- Ion Larrañaga <ilarra@s21sec.com> fix to default partial packet generation in BCPGOutputStream.
- Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
- Stefan Meyer <stefan.meyer@ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.
- Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.
- Rui Hodai <rui@po.nts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
- Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
- Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
- Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
- Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.
- Cagdas Cirit <cagdascirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
- Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
- Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.
- Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASNIDump, support for DERExternal, DNS performance fix for S/MIME API.
- Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
- Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.

- Elisabetta Romani <eromani@sopei.it> patch for recognising multiple counter signatures.
- Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
- Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
- Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
- Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
- Michael <emfau@t-online.de> correction of field error in getResponse method in CertRepMessage.
- Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@gmail.com> additional OIDs for PCKS10 and certificate generation support.
- Frank Cornelis <info@frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.
- Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@btinternet.com> patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@hjp-consulting.com> fine tuning of code for DHParameters validation.

- Shawn Willden <swillden@#064google.com>; additional functionality to PGPKeyRing.
- Atanas Krachev <akrachev@#064gmail.com>; added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@#064keynectis.com>; initial cut of EAC classes.
- Tim Buktu <tbuktu@#064hotmail.com>; Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@#064gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@#064BEKK.no>; Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@#064tngtech.com>; Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@#064gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@#064gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@#064bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@#064gmail.com>; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
- Andy Neilson <Andy.Neilson@#064quest.com>; a further patches to deal with multiple providers and PEMReader.
- Ted Shaw <xiao.xj@#064gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
- Eleriseth <Eleriseth@#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.
- Kenny Root <kenny@#064the-b.org>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
- Maarten Bodewes <maarten.bodewes@#064gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
- Philip Clay <pilf_b@#064yahoo.com>; Initial implementation of J-PAKE.
- Brian Carlstrom <bdc@#064carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
- Samuel Lidén Borell <samuel@#064primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
- Sergio Demian Lerner <sergiolerner@#064certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.
- Tim Whittington <Tim.Whittington@#064orionhealth.com>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
- Marcus Lundblad <marcus.lundblad@#064primekey.se>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimestampTokenGenerator, additional extensions enhancement for time stamp token generation.
- Andrey Zhozhin <zhozhin@#064xrm.ru>; patch for override of TSP SignerInfo attributes.

- Sergey Tiunov <mailto:t5555d@gmail.com>; initial cut of DVCS classes.
- Damian Kolasa <mailto:fatfredyy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.
- Ash Hughes <mailto:ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
- Daniel Hirscher <mailto:dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.
- Daniele Ricci <mailto:daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.
- Matti Aarnio <mailto:matti.aarnio@methics.fi>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.
- Babak Najafi <mailto:bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.
- Eric Mueller <mailto:eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.
- Mathias Herberts <mailto:Mathias.Herberts@gmail.com>; fix to inOff usage in RFC3394WrapEngine.
- Daniil Ivanov <mailto:daniil.ivanov@gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.
- Daniele Grasso <mailto:daniele.grasso86@gmail.com>; contributions to final Key calculation code for SRP6.
- Andrey Utkin <mailto:cindrhc@gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
- Arnis Tartu <mailto:arnis@ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
- AxelVDB <mailto:axel-vdb@riseup.net>; initial implementation of Shacal2.
- Roberto Tyley <mailto:rtyley@redhat.com>; further work on completing gradle build.
- Waldemar Dick <mailto:wdick@devmue.de>; code improvement in x500 ASN.1 package.
- Sid Steward <mailto:sid.steward@pdfabs.com>; code improvements to ASN1Boolean.
- Alex Klyubin <mailto:klyubin@google.com>; AlgorithmParameters check for EC key agreement.
- Jonathan Gillett <mailto:gsoc.student@gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
- Andreas Reiter <mailto:andreas.reiter@iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
- Kieran Miller <mailto:kieran.miller@gmail.com>; initial implementation for RFC 5649 key wrap with padding.
- Oliver Ehli <mailto:ehli@arago.de>; Additional support for BSI plain ECDSA in the provider.
- Daniel Heldt <mailto:Daniel.Heldt@cryptovision.com>; Initial support for encodable state message digests
- Robert Bushman <mailto:bouncycastle@traxel.com>; Clean up of DirectKeySignature example.
- Maurice Aarts <mailto:aarts@riscure.com>; updated to KDF generator to follow NIST SP 800-108.
- Franziskus Kiefer <https://github.com/franziskuskiefer>; initial implementation of Cramer-Shoup.
- KB Sriram <mailto:mail_kb@yahoo.com>; testing for odd encodings for PGP User Attribute Subpackets.
- Marco Schulze <mailto:marco@nightlabs.de>; Reported verification bug in GenericSigner.
- Martin Schaef <https://github.com/martinschaef>; contributed a code-cleanup patch.
- dstutz <https://github.com/dstutz>; added iteration count setters to PKCS#12 PBE mac/key generator builders.

- Tobias Wich<lt;tobias.wich@ecsec.de>; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
- Hauke Mehrrens<lt;hauke@hauke-m.de>; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
- Daniel Zimmerman<lt;dmz@galois.com>; Further key quality improvements to RSAKeyPairGenerator.
- Jens Kapitza<lt;j.kapitza@schwarze-allianz.de>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
- Johan Eklund<lt;johan@primekey.se>; update to RFC 6960 for OCSPObjectIdentifiers.
- nikosn<lt;https://github.com/nikosn>; Fix to encoding of EC private keys to ensure encoding matches order length.
- Axel von dem Bruch <lt;axel-vdb@riseup.net>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
- Derek Atkins <lt;derek@ihtfp.com>; Documentation fixes to X9ObjectIdentifiers.
- Peter Jr Halicky <lt;peto@halicky.sk>; Correction to notification/error message handling in SignedMailValidator.
- IartiguePierre<lt;https://github.com/IartiguePierre>; Fix for counter signature SID in CMSSignedData.
- Thomas Belot<lt;thomas.belot+BC@gmail.com>; initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<lt;https://github.com/rdicroce>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler<lt;https://github.com/Vampire>; Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<lt;https://github.com/dschuermann>; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
- Michael <lt;MSKnete@web.de>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
- Tobias Wagner <lt;tobias.wagner@n-design.de>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro <lt;sgiro@google.com>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuetter<lt;https://github.com/bschuetter>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot<lt;https://github.com/dallotTazTag>; Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen <lt;j.w.janssen@bouncycastle.org>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding <lt;sebastian.oerding@robotron.de>; Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer <lt;kai.kramer@gmail.com>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles <lt;benoit.charles@opentrust.com>; Fix for IES data length check on decryption.
- Niko <lt;nfink95@gmail.com>; fix to cast issue in getOutputSize() for ECIES.
- akwizgran<lt;https://github.com/akwizgran>; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff <lt;Matthias.Edelhoff@cryptovision.com>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

- Lukasz Deputat <lukasz.deputat@#064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
- Andr e Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
- Slawomir Jaranowski<https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.
- William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele <jnaegele@#064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons> NullPointerException patch for WNafUtil.
- The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.
- Gorka Irazoqui <girazoki@#064wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
- Joerg Senekowitsch <joerg.senekowitsch@#064veridos.com> patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshta <wipe@#064ya.ru> N4 calculation fix to GOFB mode.
- Artem Storozhuk <storojs72@#064gmail.com> N4 calculation fix to GOFB mode.
- Na Yu <na.yu@#064samsung.com> Constructor patches to CMC PKIData.
- Evangelos Karatsiolis <ekaratsiolis@#064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.
- mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.
- Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
- Sebastian Wolfgang Roland <sebastianwolfgang.roland@#064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.
- didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.
- Mike Safonov<https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk <storojs72@#064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
- Andreas Glaser <andreas.glaser@#064gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.
- codeborne <https://github.com/cbXP> patch to correct OIDs used in public key digest parameters for ECGOST-2012.
- FauxFaux <https://github.com/FauxFaux> patch for JDK 1.9 update to DRBG.java.
- 4garbage <https://github.com/4garbage> patch to allow GOST3410-94 private keys encoded as integers.
- ekszz <https://github.com/ekszz> corrections to SM2 signer to include default identity value.
- jminer <https://github.com/jminer> fix to Blake2b for hashes in range of 2**64-127 to 2**64.

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- Scott Woodward <scott@bit3consulting.com> performance fixes for CTRSP800DRBG.
- David Strawn <https://github.com/isomarcte> fix for off by one error in SCRYPT bounds checking.
- chris mccown <0xchrismccown@gmail.com> identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
- ZZMarquis <https://github.com/ZZMarquis> offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
- Andreas Kretschmer <https://github.com/Akretsch> NPE fix for CertTemplate.getVersion()
- Armin Lunkeit, Michael Tautenhahn <> identification of M-R test issue on higher certainty values in RSA key pair generation.
- Vincent Breitmoser <https://github.com/Valodim> fix to ignore unnecessary checksum calculator on PGP secret key encryption.
- Adam Vartanian <https://github.com/flooeey> use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
- Bernd <https://github.com/ecki> Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.
- Shartung <https://github.com/shartung> Additional EC Key Agreement algorithms in support of German BSI TR-03111.
- Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
- Nick of Nexxar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
- catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
- fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.
- MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.
- Tony Washer <tony.washer@yahoo.co.uk> review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.
- Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
- Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
- Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
- Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
- sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
- Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
- Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
- Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.

- René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche> Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberofLeadingZeros method.
- Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.
- vkreml <https://github.com/svkreml> GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt >tobias@pentagrid.ch< Identification of 1.63 regression in ASN.1 parsing.

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<link rel="stylesheet" href="easymock.css" />
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1.216 okio 2.7.0

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* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/Sink.kt

* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/BufferedSink.kt

```
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/Buffer.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/Source.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/internal/Buffer.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/RealBufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/Timeout.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/BufferedSource.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-
jar/commonMain/okio/RealBufferedSink.kt
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/Okio.kt
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1074323481_1595745315.39/0/okio-2-7-0-sources-jar/commonMain/okio/-
Base64.kt
```

1.217 shiro-event 1.7.1

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1.219 zlib 1.2.11.dfsg 0ubuntu2

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1.220 metrics-health-checks 4.1.9

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1.221 cracklib 2.9.2-5build1

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Upstream-Contact: Nathan Neulinger <nneul@umr.edu>

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1.222 jackson 2.10.0

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lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

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GSS-API mechglue layer.

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@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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1.227 hikaricp-java7 2.4.13

1.228 slf4j 1.7.30

1.228.1 Available under license :

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1.229 javassist 3.19.0-GA

1.229.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-
```

jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtMember.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/JvstCodeGen.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/Opcodes.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CtPrimitiveType.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/SignatureAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java

* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/CodeConverter.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/FieldDecl.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/Type.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/AssignExpr.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/FieldAccess.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/Dump.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java

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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java

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1.230 commons-codec 1.5

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it under certain conditions; type `show c' for details.
```

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

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

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

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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>

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None

Cryptography

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1.232 nghttp2 1.30.0-1ubuntu1

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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1.233 docker-java-transport-httpclient 3.2.5

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1.234 yamlbeans 1.09

1.235 istack-commons 3.0.7

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1.236 kotlin 1.3.70

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```
{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","generated/_ArraysJs.kt","comparisons/Comparisons.kt","kotlin/Comparator.kt","util/Standard.kt","generated/_ComparisonsJs.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/ULong.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","Collections.kt","Iterators.kt","ProgressionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt","internal/progressionUtil.kt","reflect/KParameter.kt","reflect/KType.kt","reflect/KVariance.kt","reflect/KVisibility.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBeMisc.kt","kotlin/jsOperators.kt","kotlin/math_js-v1.kt","kotlin/numbers_js-v1.kt","kotlin/text/numberConversions_js-v1.kt","generated/_CollectionsJs.kt","generated/_StringsJs.kt","generated/_UArraysJs.kt","jquery/ui.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/Equalit
```


yComparator.kt", "kotlin/collections/HashMap.kt", "kotlin/collections/HashSet.kt", "kotlin/collections/InternalHashMap.kt", "kotlin/collections/InternalMap.kt", "kotlin/collections/InternalStringMap.kt", "kotlin/collections/LinkedHashMap.kt", "kotlin/collections/LinkedHashSet.kt", "kotlin/concurrent.kt", "kotlin/console.kt", "kotlin/coroutines/SafeContinuationJs.kt", "kotlin/coroutines/js/internal/EmptyContinuation.kt", "kotlin/date.kt", "kotlin/dom/Builders.kt", "kotlin/dom/Classes.kt", "text/regex/RegexExtensions.kt", "text/StringBuilder.kt", "kotlin/dom/Dom.kt", "kotlin/dom/EventListener.kt", "kotlin/dom/ItemArrayLike.kt", "kotlin/dom/Mutations.kt", "kotlin/dynamic.kt", "kotlin/exceptionUtils.kt", "kotlin/exceptions.kt", "kotlin/grouping.kt", "collections/Grouping.kt", "kotlin/js.math.kt", "kotlin/json.kt", "kotlin/math.kt", "kotlin/numbers.kt", "kotlin/promise.kt", "kotlin/random/PlatformRandom.kt", "kotlin/reflect/JsClass.kt", "kotlin/reflect/KClassImpl.kt", 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"random/URandom.kt", "random/XorWowRandom.kt", "ranges/Ranges.kt", "reflect/KClasses.kt", "reflect/typeOf.kt", "text/Appendable.kt", "text/Char.kt", "text/Indent.kt", "text/Typography.kt", "text/regex/MatchResult.kt", "time/Duration.kt", "time/DurationUnit.kt", "time/ExperimentalTime.kt", "time/TimeSource.kt", "time/TimeSources.kt", "time/measureTime.kt", "util/HashCode.kt", "util/KotlinVersion.kt", "util/Lateinit.kt", "util/Lazy.kt", "util/Numbers.kt", "util/Suspend.kt", "util/Tuples.kt", "kotlin/UIntRange.kt", "kotlin/UIterators.kt", "kotlin/ULongRange.kt", "kotlin/UMath.kt", "kotlin/UNumbers.kt", "kotlin/UProgressionUtil.kt", "kotlin/UStrings.kt", "kotlin/annotations/Unsigned.kt", "kotlin/MathH.kt", "coroutines.kt", "CoroutinesLibrary.kt", "coroutinesIntrinsics.kt", "ContinuationInterceptor.kt", "CoroutineContext.kt", "CoroutineContextImpl.kt", "Coroutines.kt", "Intrinsics.kt", "SequenceBuilder.kt"], "sourcesContent": ["(function (root, factory) {\n if (typeof define === 'function' && define.amd) {\n define('kotlin', ['exports'], factory);\n }\n else if (typeof exports === 'object') {\n factory(module.exports);\n }\n else {\n root.kotlin = {};\n factory(root.kotlin);\n }\n})(this, function (Kotlin) {\n var _ = Kotlin;\n\n insertContent();\n});\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n *\n\nKotlin.isBooleanArray = function (a) {\n return (Array.isArray(a) || a instanceof Int8Array) && a.\$type\$ === \"BooleanArray\";\n};\n\nKotlin.isByteArray = function (a) {\n return a instanceof Int8Array && a.\$type\$!== \"BooleanArray\";\n};\n\nKotlin.isShortArray = function (a) {\n return a instanceof Int16Array;\n};\n\nKotlin.isCharArray = function (a) {\n return a instanceof Uint16Array && a.\$type\$ === \"CharArray\";\n};\n\nKotlin.isIntArray = function (a) {\n return a instanceof Int32Array;\n};\n\nKotlin.isFloatArray = function (a) {\n return a instanceof Float32Array;\n};\n\nKotlin.isDoubleArray = function (a) {\n return a instanceof Float64Array;\n};\n\nKotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.\$type\$ === \"LongArray\";\n};\n\nKotlin.isArray = function (a) {\n return Array.isArray(a) && !a.\$type\$;\n};\n\nKotlin.isArrayish = function (a) {\n return Array.isArray(a) ||

```

ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n  var toString = Kotlin.isCharArray(a) ?
String.fromCharCode : Kotlin.toString;\n  return "[" + Array.prototype.map.call(a, function(e) { return
toString(e); }).join(", ") + "]";\n};\n\nKotlin.arrayDeepToString = function (arr) {\n  return
Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals = function (a, b) {\n  if (a ===
b) {\n    return true;\n  }\n  if (!Kotlin.isArrayish(b) || a.length !== b.length) {\n    return false;\n  }\n  for
(var i = 0, n = a.length; i < n; i++) {\n    if (!Kotlin.equals(a[i], b[i])) {\n      return false;\n    }\n  }\n  return true;\n};\n\nKotlin.arrayDeepEquals = function (a, b) {\n  return
Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode = function (arr) {\n  var
result = 1;\n  for (var i = 0, n = arr.length; i < n; i++) {\n    result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) |
0;\n  }\n  return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n  return
Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n
array.sort(Kotlin.doubleCompareTo);\n};\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n  f.callableName = name;\n  return
f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n  getter.get = getter;\n
getter.set = setter;\n  getter.callableName = name;\n  return getPropertyRefClass(getter, setter,
propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n
obj.$metadata$ = getPropertyRefMetadata(typeof setter === "function" ? cache.mutable : cache.immutable);\n
obj.constructor = obj;\n  return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n  {\n    mutable: { value:
null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KMutableProperty0 }\n    },\n
immutable: { value: null, implementedInterface: function () {\n      return Kotlin.kotlin.reflect.KProperty0 }\n
}\n  },\n  {\n    mutable: { value: null, implementedInterface: function () {\n      return
Kotlin.kotlin.reflect.KMutableProperty1 }\n    },\n    immutable: { value: null, implementedInterface: function
() {\n      return Kotlin.kotlin.reflect.KProperty1 }\n    }\n  }\n];\n\nfunction getPropertyRefMetadata(cache)
{\n  if (cache.value === null) {\n    cache.value = {\n      interfaces: [cache.implementedInterface()],\n
baseClass: null,\n      functions: {},\n      properties: {},\n      types: {},\n      staticMembers: {}\n
};\n  }\n  return cache.value;\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n  return (a & 0xFFFF) << 16 >>
16;\n};\n\nKotlin.toByte = function (a) {\n  return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n
return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n  return a instanceof Kotlin.Long ? a :
Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n  return a instanceof Kotlin.Long ?
a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n  return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n  return
Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n  return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n  return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n  if (a > 2147483647) return
2147483647;\n  if (a < -2147483648) return -2147483648;\n  return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n  if (a == null) return a;\n  if (a instanceof Kotlin.BoxedChar) return a;\n  return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n  if (a == null) return a;\n  return
Kotlin.toChar(a);\n};\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n  if (obj1 == null) {\n    return obj2 ==
null;\n  }\n  if (obj2 == null) {\n    return false;\n  }\n  if (obj1 !== obj2) {\n    return obj1 !== obj2;\n
}\n  if (typeof obj1 === "object" && typeof obj1.equals === "function") {\n    return obj1.equals(obj2);\n
}\n  if (typeof obj1 === "number" && typeof obj2 === "number") {\n    return obj1 === obj2 && (obj1 !==
0 || 1 / obj1 === 1 / obj2);\n  }\n  return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n  if (obj ==
null) {\n    return 0;\n  }\n  var objType = typeof obj;\n  if ("object" === objType) {\n    return "function"

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=== typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n } \n if ("function" === objType) {\n
return getObjectHashCode(obj);\n } \n if ("number" === objType) {\n return
Kotlin.numberHashCode(obj);\n } \n if ("boolean" === objType) {\n return Number(obj)\n }\n\n var str
= String(obj);\n return getStringHashCode(str);\n};\n\n\nKotlin.toString = function (o) {\n if (o == null) {\n
return "null";\n } \n else if (Kotlin.isArrayish(o)) {\n return "["+...";\n } \n else {\n return
o.toString();\n } \n};\n\n\n/** @const *\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol
type once we are on ES6.\n/** @const *\nvar OBJECT_HASH_CODE_PROPERTY_NAME =
"kotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n if
(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit signed integer.\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {\n
value: hash, enumerable: false });\n } \n return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n var hash = 0;\n
for (var i = 0; i < str.length; i++) {\n var code = str.charCodeAt(i);\n hash = (hash * 31 + code) | 0; // Keep
it 32-bit.\n } \n return hash;\n}\n\n\nKotlin.identityHashCode = getObjectHashCode;\n", "/*\n * Copyright 2010-
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http://www.apache.org/licenses/LICENSE-2.0\n/\n\n// Unless required by applicable law or agreed to in writing,
software\n// distributed under the License is distributed on an "AS-IS" BASIS,\n// WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied.\n\n\n/**\n * Constructs a 64-bit two's-complement integer,
given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n *
convenient ways of constructing Longs.\n * \n * The internal representation of a long is the two given signed, 32-bit
values.\n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-
operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can
easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n
*\n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the
input(s) and then post-processing the result.\n * Note that we must ALWAYS check specially whether those values
are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a
positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite
recursion.\n * \n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The
high (signed) 32 bits of the long.\n * @constructor\n * @final\n *\nKotlin.Long = function(low, high) {\n /**\n *
@type {number}\n * @private\n *\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n * @type
{number}\n * @private\n *\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\n\nKotlin.Long.$metadata$ =
{\n kind: "class",\n simpleName: "Long",\n interfaces: []\n};\n\n\n// NOTE: Common constant values
ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n\n\n/**\n * A cache
of the Long representations of small integer values.\n * @type {!Object}\n * @private\n *\nKotlin.Long.IntCache_
= {};\n\n\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The
32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n *\nKotlin.Long.fromInt =
function(value) {\n if (-128 <= value && value < 128) {\n var cachedObj = Kotlin.Long.IntCache_[value];\n if
(cachedObj) {\n return cachedObj;\n } \n } \n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-
128 <= value && value < 128) {\n Kotlin.Long.IntCache_[value] = obj;\n } \n return obj;\n};\n\n\n\n\n/**\n *
Converts this number value to `Long`. \n * The fractional part, if any, is rounded down towards zero.\n * Returns
zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, \n *
`Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`. \n * @param {number} value The number in
question.\n * @return {!Kotlin.Long} The corresponding Long value.\n *\nKotlin.Long.fromNumber =
function(value) {\n if (isNaN(value)) {\n return Kotlin.Long.ZERO;\n } else if (value <= -
Kotlin.Long.TWO_PWR_63_DBL_) {\n return Kotlin.Long.MIN_VALUE;\n } else if (value + 1 >=

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Kotlin.Long.TWO_PWR_63_DBL_) {\n  return Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n  return
Kotlin.Long.fromNumber(-value).negate();\n } else {\n  return new Kotlin.Long(\n  (value %
Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n  (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n
}\n};\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and
low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number}
highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits
= function(lowBits, highBits) {\n  return new Kotlin.Long(lowBits, highBits);\n};\n\n/**\n * Returns a Long
representation of the given string, written using the given\n * radix.\n * @param {string} str The textual
representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return
{!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n  if
(str.length == 0) {\n    throw Error('number format error: empty string');\n  }\n\n  var radix = opt_radix || 10;\n  if
(radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (str.charAt(0) == '-') {\n    return
Kotlin.Long.fromString(str.substring(1), radix).negate();\n  } else if (str.indexOf('-') >= 0) {\n    throw Error('number
format error: interior \"-\" character: ' + str);\n  }\n\n  // Do several (8) digits each time through the loop, so as to\n //
minimize the calls to the very expensive emulated div.\n  var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n  var result = Kotlin.Long.ZERO;\n  for (var i = 0; i < str.length;
i += 8) {\n    var size = Math.min(8, str.length - i);\n    var value = parseInt(str.substring(i, i + size), radix);\n    if
(size < 8) {\n      var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n      result =
result.multiply(power).add(Kotlin.Long.fromNumber(value));\n    } else {\n      result =
result.multiply(radixToPower);\n      result = result.add(Kotlin.Long.fromNumber(value));\n    }\n  }\n  return
result;\n};\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_32_DBL_ =\n  Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_31_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n/**\n * @type
{number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_48_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n  Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n  Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n/**\n * @type
{!Kotlin.Long}\n
*/\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n/**\n * @type {!Kotlin.Long}\n
*/\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n/**\n * @type {!Kotlin.Long}\n
*/\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n/**\n * @type {!Kotlin.Long}\n
*/\nKotlin.Long.MAX_VALUE =\n  Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n/**\n * @type {!Kotlin.Long}\n
*/\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n
*/\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n/**\n * @return {number} The
value, assuming it is a 32-bit integer.\n
*/\nKotlin.Long.prototype.toInt = function() {\n  return this.low_;\n};\n\n/**\n * @return {number} The closest floating-point representation to this value.\n
*/\nKotlin.Long.prototype.toNumber =
function() {\n  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n  this.getLowBitsUnsigned();\n};\n\n/**\n * @return {number} The 32-bit hashCode of this value.\n
*/\nKotlin.Long.prototype.hashCode = function() {\n  return this.high_ ^ this.low_;\n};\n\n/**\n * @param
{number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation
of this value.\n * @override\n
*/\nKotlin.Long.prototype.toString = function(opt_radix) {\n  var radix = opt_radix ||
10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (this.isZero()) {\n
return '0';\n  }\n\n  if (this.isNegative()) {\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      // We need to

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then sum the chunks.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_
>>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n
var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00
+= a00 + b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &=
0xFFFF;\n c32 += a32 + b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &=
0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);};\n\n\n/**\n * Returns the
difference of this and the given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return
{!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other)
{\n return this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param
{Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other).negate();\n }\n } else if
(other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float
multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 * b00;\n c48 +=
c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a00 *
b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 * b32 + a00 * b48;\n c48
&= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);};\n\n\n\n/**\n * Returns this
Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return
{!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n if
(other.isZero()) {\n throw Error('division by zero');\n } else if (this.isZero()) {\n return Kotlin.Long.ZERO;\n
}\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if (other.equalsLong(Kotlin.Long.ONE) ||\n
other.equalsLong(Kotlin.Long.NEG_ONE)) {\n return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE
== MIN_VALUE\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ONE;\n
}\n } else {\n // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|. \n var halfThis =
this.shiftRight(1);\n var approx = halfThis.div(other).shiftLeft(1);\n if
(approx.equalsLong(Kotlin.Long.ZERO)) {\n return other.isNegative() ? Kotlin.Long.ONE :
Kotlin.Long.NEG_ONE;\n } else {\n var rem = this.subtract(other.multiply(approx));\n var result =
approx.add(rem.div(other));\n return result;\n }\n }\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n
if (other.isNegative()) {\n return this.negate().div(other.negate());\n } else {\n return
this.negate().div(other).negate();\n }\n } else if (other.isNegative()) {\n return
this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n //
floating-point that approximates remainder / other *from below*, add this\n // into the result, and subtract it from
the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n //
remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while
(rem.greaterThanOrEqual(other)) {\n // Approximate the result of division. This may be a little greater or\n //
smaller than the actual value.\n var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n

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// We will tweak the approximate result by changing it in the 48-th digit or\n // the smallest non-fractional digit,
whichever is larger.\n var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n var delta = (log2 <= 48) ? 1 :
Math.pow(2, log2 - 48);\n // Decrease the approximation until it is smaller than the remainder. Note\n // that if
it is too large, the product overflows and is negative.\n var approxRes = Kotlin.Long.fromNumber(approx);\n
var approxRem = approxRes.multiply(other);\n while (approxRem.isNegative() || approxRem.greaterThan(rem))
{\n approx -= delta;\n approxRes = Kotlin.Long.fromNumber(approx);\n approxRem =
approxRes.multiply(other);\n }\n // We know the answer can't be zero... and actually, zero would cause\n //
infinite recursion since we would make no progress.\n if (approxRes.isZero()) {\n approxRes =
Kotlin.Long.ONE;\n }\n res = res.add(approxRes);\n rem = rem.subtract(approxRem);\n }\n return
res;\n};\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to
mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo =
function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n/**\n * @return {!Kotlin.Long} The
bitwise-NOT of this value.\n */\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_,
~this.high_);\n};\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long}
other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n
*/\nKotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n
this.high_ & other.high_);\n};\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n *
@param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and
the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ |
other.low_,\n this.high_ | other.high_);\n};\n\n/**\n * Returns the bitwise-XOR of this Long
and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return
Kotlin.Long.fromBits(this.low_ ^ other.low_,\n this.high_ ^ other.high_);\n};\n\n/**\n *
Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of
bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n
*/\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return
this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return
Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits));\n } else
{\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n/**\n * Returns this Long with
bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n
* @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight =
function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n
if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high
<<< (32 - numBits)),\n high >>> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >>>
(numBits - 32),\n high >= 0 ? 0 : -1);\n }\n }\n};\n\n/**\n * Returns this Long with bits shifted to the right
by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number
of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n *
zeros placed into the new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n
numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high = this.high_;\n if (numBits < 32) {\n
var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high <<< (32 - numBits)),\n
high >>> numBits);\n } else if (numBits == 32) {\n return Kotlin.Long.fromBits(high, 0);\n } else {\n
return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n }\n }\n};\n\n// Support for
Kotlin\nKotlin.Long.prototype.equals = function (other) {\n return other instanceof Kotlin.Long &&
this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ =
Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n return
this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n return
this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n return
this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n return

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this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv =
Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n  return new
Kotlin.kotlin.ranges.LongRange(this, other);\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n * @param {string} id\n * @param {Object} declaration\n */\n\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n
return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n  var f = function() {\n    f = fun();\n    return
f.apply(this, arguments);\n  };\n  return function() {\n    return f.apply(this, arguments);\n
};\n};\n\nKotlin.isTypeOf = function(type) {\n  return function (object) {\n    return typeof object === type;\n
};\n};\n\nKotlin.isInstanceOf = function (klass) {\n  return function (object) {\n    return Kotlin.isType(object,
klass);\n  };\n};\n\nKotlin.orNull = function (fn) {\n  return function (object) {\n    return object == null ||
fn(object);\n  };\n};\n\nKotlin.andPredicate = function (a, b) {\n  return function (object) {\n    return a(object)
&& b(object);\n  };\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data)
{\n};\n\nKotlin.suspendCall = function(value) {\n  return value;\n};\n\nKotlin.coroutineResult = function(qualifier)
{\n  throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n
throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n
throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n
throwMarkerError();\n};\n\nfunction throwMarkerError() {\n  throw new Error(\n    \"This marker function
should never be called. \" +\n    \"Looks like compiler did not eliminate it properly. \" +\n    \"Please, report
an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n  return
function() {\n    return defaultValue;\n  };\n};\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n  var typeA = typeof a;\n  if
(typeA === \"number\") {\n    if (typeof b === \"number\") {\n      return Kotlin.doubleCompareTo(a, b);\n
    }\n    return Kotlin.primitiveCompareTo(a, b);\n  }\n  if (typeA === \"string\" || typeA === \"boolean\") {\n
return Kotlin.primitiveCompareTo(a, b);\n  }\n  return
a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n  return a < b ? -1 : a > b ? 1 :
0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n  if (a < b) return -1;\n  if (a > b) return 1;\n\n  if (a ===
b) {\n    if (a !== 0) return 0;\n\n    var ia = 1 / a;\n    return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n  }\n\n
return a !== a ? (b !== b ? 0 : 1) : -1;\n};\n\nKotlin.charInc = function (value) {\n  return
Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n  return Kotlin.toChar(value-
1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n  return ((a &
0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n  var buf = new ArrayBuffer(8);\n  var
bufFloat64 = new Float64Array(buf);\n  var bufFloat32 = new Float32Array(buf);\n  var bufInt32 = new
Int32Array(buf);\n  var lowIndex = 0;\n  var highIndex = 1;\n\n  bufFloat64[0] = -1; // bff00000_00000000\n  if
(bufInt32[lowIndex] !== 0) {\n    lowIndex = 1;\n    highIndex = 0;\n  }\n\n  Kotlin.doubleToBits =
function(value) {\n    return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n  };\n\n  Kotlin.doubleToRawBits = function(value) {\n    bufFloat64[0] = value;\n    return
Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n  };\n\n  Kotlin.doubleFromBits =
function(value) {\n    bufInt32[lowIndex] = value.low_;\n    bufInt32[highIndex] = value.high_;\n    return
bufFloat64[0];\n  };\n\n  Kotlin.floatToBits = function(value) {\n    return Kotlin.floatToRawBits(isNaN(value)
? NaN : value);\n  };\n\n  Kotlin.floatToRawBits = function(value) {\n    bufFloat32[0] = value;\n    return
bufInt32[0];\n  };\n\n  Kotlin.floatFromBits = function(value) {\n    bufInt32[0] = value;\n    return
bufFloat32[0];\n  };\n\n  // returns zero value for number with positive sign bit and non-zero value for number
with negative sign bit.\n  Kotlin.doubleSignBit = function(value) {\n    bufFloat64[0] = value;\n    return
bufInt32[highIndex] & 0x80000000;\n  };\n\n  Kotlin.numberHashCode = function(obj) {\n    if ((obj | 0) ===
obj) {\n      return obj | 0;\n    }\n    else {\n      bufFloat64[0] = obj;\n      return (bufInt32[highIndex]

```



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* 31 | 0) + bufInt32[lowIndex] | 0;\n    }\n    }\n});\n\nKotlin.ensureNotNull = function(x) {\n    return x != null\n    ? x : Kotlin.throwNPE();\n};\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\nif (typeof String.prototype.startsWith === "undefined") {\n    String.prototype.startsWith = function(searchString, position) {\n        position = position || 0;\n        return\n        this.lastIndexOf(searchString, position) === position;\n    };\n}\n\nif (typeof String.prototype.endsWith ===\n \"undefined\") {\n    String.prototype.endsWith = function(searchString, position) {\n        var subjectString =\n        this.toString();\n        if (position === undefined || position > subjectString.length) {\n            position =\n            subjectString.length;\n        }\n        position -= searchString.length;\n        var lastIndex =\n        subjectString.indexOf(searchString, position);\n        return lastIndex !== -1 && lastIndex === position;\n    };\n}\n\n// ES6 Math polyfills\n\nif (typeof Math.sign === "undefined") {\n    Math.sign = function(x) {\n        x = +x;\n        // convert to a number\n        if (x === 0 || isNaN(x)) {\n            return Number(x);\n        }\n        return x > 0 ? 1 : -\n        1;\n    };\n}\n\nif (typeof Math.trunc === "undefined") {\n    Math.trunc = function(x) {\n        if (isNaN(x)) {\n            return NaN;\n        }\n        if (x > 0) {\n            return Math.floor(x);\n        }\n        return Math.ceil(x);\n    };\n}\n\n(function() {\n    var epsilon = 2.220446049250313E-16;\n    var taylor_2_bound = Math.sqrt(epsilon);\n    var taylor_n_bound = Math.sqrt(taylor_2_bound);\n    var upper_taylor_2_bound = 1/taylor_2_bound;\n    var\n    upper_taylor_n_bound = 1/taylor_n_bound;\n\n    if (typeof Math.sinh === "undefined") {\n        Math.sinh =\n        function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n                if (Math.abs(x) >\n                taylor_2_bound) {\n                    result += (x * x * x) / 6;\n                }\n                return result;\n            } else {\n                var y = Math.exp(x);\n                var y1 = 1 / y;\n                if (!isFinite(y)) return Math.exp(x - Math.LN2);\n                if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n                return (y - y1) / 2;\n            }\n        };\n    }\n\n    if (typeof Math.cosh === "undefined") {\n        Math.cosh = function(x) {\n            var y = Math.exp(x);\n            var y1 = 1 / y;\n            if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n            return (y + y1) / 2;\n        };\n    }\n\n    if (typeof Math.tanh === "undefined") {\n        Math.tanh = function(x) {\n            if\n            (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n                if (Math.abs(x) > taylor_2_bound) {\n                    result -= (x * x * x) / 3;\n                }\n                return result;\n            }\n            else {\n                var a =\n                Math.exp(+x), b = Math.exp(-x);\n                return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n            }\n        };\n    }\n\n    // Inverse hyperbolic function implementations derived from boost special math functions,\n    // Copyright Eric Ford & Hubert Holin 2001.\n\n    if (typeof Math.asinh === "undefined") {\n        var asinh =\n        function(x) {\n            if (x >= +taylor_n_bound)\n                {\n                    if (x > upper_taylor_n_bound)\n                    {\n                        if (x > upper_taylor_2_bound)\n                            {\n                                // approximation by laurent series in\n                                1/x at 0+ order from -1 to 0\n                                return Math.log(x) + Math.LN2;\n                            }\n                            else\n                            {\n                                // approximation by laurent series in 1/x at 0+ order from -1 to 1\n                                return\n                                Math.log(x * 2 + (1 / (x * 2)));\n                            }\n                        }\n                    }\n                }\n            else if (x <= -taylor_n_bound)\n                {\n                    return\n                    Math.log(x + Math.sqrt(x * x + 1));\n                }\n            else\n                {\n                    // approximation by taylor series in x at 0 up to\n                    order 2\n                    var result = x;\n                    if (Math.abs(x) >= taylor_2_bound)\n                        {\n                            var x3 =\n                            x * x * x;\n                            // approximation by taylor series in x at 0 up to order 4\n                            result -= x3 / 6;\n                        }\n                    }\n                }\n            return result;\n        };\n    }\n\n    Math.asinh = asinh;\n\n    if (typeof Math.acosh ===\n    \"undefined\") {\n        Math.acosh = function(x) {\n            if (x < 1)\n                {\n                    return NaN;\n                }\n            else if (x - 1 >= taylor_n_bound)\n                {\n                    if (x > upper_taylor_2_bound)\n                        {\n                            // approximation by laurent series in 1/x at 0+ order from -1 to 0\n                            return Math.log(x) + Math.LN2;\n                        }\n                    }\n                }\n            else\n                {\n                    return Math.log(x + Math.sqrt(x * x - 1));\n                }\n        }\n    }\n\n    else\n        {\n            var y = Math.sqrt(x - 1);\n            // approximation by taylor series in y at 0\n            up to order 2\n            var result = y;\n            if (y >= taylor_2_bound)\n                {\n                    var y3 = y *\n                    y * y;\n                    // approximation by taylor series in y at 0 up to order 4\n                    result -= y3 / 12;\n                }\n        }\n    }\n\n    return Math.sqrt(2) * result;\n    };\n}\n\nif (typeof Math.atanh === "undefined")\n{\n    Math.atanh = function(x) {\n        if (Math.abs(x) < taylor_n_bound) {\n            var result = x;\n
```



```

arrays[i];\n    if (typeof TypedArray.prototype.sort === \"undefined\") {\n
Object.defineProperty(TypedArray.prototype, 'sort', {\n        value: function(compareFunction) {\n
return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n        }\n    });\n    }\n
}\n})();\n\", \"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\nKotlin.Kind = {\n    CLASS: \"class\", \n    INTERFACE: \"interface\", \n    OBJECT:
\"object\";\n}\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n    var propertyDescriptor =
Object.getOwnPropertyDescriptor(klass, propertyName);\n    if (propertyDescriptor != null &&
propertyDescriptor.get != null) {\n        return propertyDescriptor.get.call(thisObject);\n    }\n    propertyDescriptor
= Object.getOwnPropertyDescriptor(thisObject, propertyName);\n    if (propertyDescriptor != null && \"value\" in
propertyDescriptor) {\n        return thisObject[propertyName];\n    }\n    return Kotlin.callGetter(thisObject,
Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName,
value) {\n    var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n    if
(propertyDescriptor != null && propertyDescriptor.set != null) {\n        propertyDescriptor.set.call(thisObject,
value);\n        return;\n    }\n    propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject,
propertyName);\n    if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n
thisObject[propertyName] = value;\n        return\n    }\n    Kotlin.callSetter(thisObject,
Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n    if
(ctor === iface) return true;\n    var metadata = ctor.$metadata$;\n    if (metadata != null) {\n        var interfaces =
metadata.interfaces;\n        for (var i = 0; i < interfaces.length; i++) {\n            if
(isInheritanceFromInterface(interfaces[i], iface)) {\n                return true;\n            }\n        }\n    }\n    var
superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\n    var superConstructor =
superPrototype != null ? superPrototype.constructor : null;\n    return superConstructor != null &&
isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n * \n * @param {*} object\n * @param
{Function|Object} klass\n * @returns {Boolean}\n */\n\nKotlin.isType = function (object, klass) {\n    if (klass ===
Object) {\n        switch (typeof object) {\n            case \"string\":\n            case \"number\":\n            case
\"boolean\":\n            case \"function\":\n                return true;\n            default:\n                return object instanceof
Object;\n        }\n    }\n    if (object == null || klass == null || (typeof object !== 'object' && typeof object !==
'function')) {\n        return false;\n    }\n    if (typeof klass === \"function\" && object instanceof klass) {\n
return true;\n    }\n    var proto = Object.getPrototypeOf(klass);\n    var constructor = proto != null ?
proto.constructor : null;\n    if (constructor != null && \"$metadata$\" in constructor) {\n        var metadata =
constructor.$metadata$;\n        if (metadata.kind === Kotlin.Kind.OBJECT) {\n            return object === klass;\n
        }\n    }\n    var classMetadata = klass.$metadata$;\n    // In WebKit (JavaScriptCore) for some interfaces from
DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\n    if (classMetadata == null) {\n
return object instanceof klass;\n    }\n    if (classMetadata.kind === Kotlin.Kind.INTERFACE &&
object.constructor != null) {\n        return isInheritanceFromInterface(object.constructor, klass);\n    }\n    return
false;\n};\n\nKotlin.isNumber = function (a) {\n    return typeof a == \"number\" || a instanceof
Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n    return value instanceof
Kotlin.BoxedChar;\n};\n\nKotlin.isComparable = function (value) {\n    var type = typeof value;\n    return type
=== \"string\" ||\n        type === \"boolean\" ||\n        Kotlin.isNumber(value) ||\n        Kotlin.isType(value,
Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n    return typeof value === \"string\"
|| Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};\n\", \"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic class Enum<T> : Enum<T>> :
Comparable<Enum<T>> {\n    @JsName(\"name$\") private var _name: String = \"\"\n    @JsName(\"ordinal$\")
private var _ordinal: Int = 0\n    val name: String\n        get() = _name\n    val ordinal: Int\n        get() =
_ordinal\n    override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n    override fun
equals(other: Any?) = this === other\n    override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n}

```

```

override fun toString() = name\n\n    companion object\n}",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ArraysKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n *\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T
{\n    return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1,
throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n    return
get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n    return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n    return
get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n    return

```

`get(1)`\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float` {\n return `get(1)`\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double` {\n return `get(1)`\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean` {\n return `get(1)`\n\n**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char` {\n return `get(1)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean` {\n return `get(2)`\n\n**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char` {\n return `get(2)`\n\n**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T` {\n return `get(3)`\n\n**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte` {\n return `get(3)`\n\n**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an `[IndexOutOfBoundsException]` except in Kotlin/JS\n * where the behavior is unspecified.\n

`*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short` {\n return

```

get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n    return
get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n    return
get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n    return
get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an
[IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n    return
get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n@public operator fun
<@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n    return indexOf(element)
>= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n *\n@public operator fun

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`ByteArray.contains(element: Byte): Boolean` {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun ShortArray.contains(element: Short): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun LongArray.contains(element: Long): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAt\n */\n\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n\n * @sample

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samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n  return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.elementAtOrNull(index: Int): T? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.elementAtOrNull(index: Int): Byte? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.elementAtOrNull(index: Int): Short? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.elementAtOrNull(index: Int): Int? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.elementAtOrNull(index: Int): Long? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.elementAtOrNull(index: Int): Float? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.elementAtOrNull(index: Int): Double? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.elementAtOrNull(index: Int): Boolean? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample

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samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) ->
Boolean): Byte? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.find(predicate: (Short) -> Boolean): Short? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n  return
firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such
element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) ->
Boolean): Long? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given
[predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.find(predicate: (Float) -> Boolean): Float? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no
such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate:
(Boolean) -> Boolean): Boolean? {\n  return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic
inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n  return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n
return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no
such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -
> Boolean): Byte? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n  return
lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) ->
Boolean): Long? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n
*^n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double?
{\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate:
(Boolean) -> Boolean): Boolean? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching
the given [predicate], or `null` if no such element was found.\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n *^npublic fun <T> Array<out
T>.first(): T {\n  if (isEmpty())\n    throw NoSuchElementException("Array is empty.")\n  return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*^npublic fun ByteArray.first(): Byte {\n  if (isEmpty())\n    throw NoSuchElementException("Array is

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empty.}\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.}\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n if (isEmpty())\n
throw NoSuchElementException("Array is empty.}\n return this[0]\n}\n\n/**\n * Returns first element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n if
(isEmpty())\n throw NoSuchElementException("Array is empty.}\n return this[0]\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.}\n return this[0]\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
DoubleArray.first(): Double {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.}\n
return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun BooleanArray.first(): Boolean {\n if (isEmpty())\n throw NoSuchElementException("Array is
empty.}\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun CharArray.first(): Char {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.}\n return this[0]\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
<T> Array<out T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException("Array contains no element matching the predicate.}\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n for (element in
this) if (predicate(element)) return element\n throw NoSuchElementException("Array contains no element
matching the predicate.}\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -
> Boolean): Short {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.}\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n for (element in this) if (predicate(element))
return element\n throw NoSuchElementException("Array contains no element matching the
predicate.}\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -
> Boolean): Long {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.}\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n for (element in this) if
(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.}\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.}\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return element\n throw NoSuchElementException("Array contains no element matching the
predicate.}\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw
NoSuchElementException("Array contains no element matching the predicate.}\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n return if

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(isEmpty()) null else this[0]\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
ByteArray.firstOrNull(): Byte? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or
`null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n    return if (isEmpty()) null else
this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull():
Int? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is
empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns
the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n    return if
(isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun
DoubleArray.firstOrNull(): Double? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,
or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n    return if (isEmpty()) null
else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull():
Char? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate],
or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n
    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate:
(Byte) -> Boolean): Byte? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n
* Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not
found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n    for (element in this) if
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate],
or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n
    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate:
(Float) -> Boolean): Float? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n
* Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun
DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n    for (element in this) if (predicate(element))
return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element
was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for
(element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching
the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char)
-> Boolean): Char? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n *
Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrNull(index: Int,
defaultValue: (Int) -> T): T? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.getOrNull(index: Int, defaultValue: (Int) -> Byte): Byte? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun ShortArray.getOrNull(index: Int, defaultValue: (Int) -> Short): Short? {\n    return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int? {\n    return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of

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bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int,
defaultValue: (Int) -> Long): Long {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) ->
Double): Double {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of
bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int,
defaultValue: (Int) -> Boolean): Boolean {\n    return if (index >= 0 && index <= lastIndex) get(index) else
defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue]
function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\npublic inline fun
CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n *^public fun <T> Array<out T>.getOrNull(index: Int): T? {\n    return if
(index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n *^public fun ByteArray.getOrNull(index: Int): Byte? {\n
return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given
[index] or `null` if the [index] is out of bounds of this array.\n *^public fun ShortArray.getOrNull(index: Int):
Short? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n *^public fun IntArray.getOrNull(index:
Int): Int? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n *^public fun LongArray.getOrNull(index:
Int): Long? {\n    return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n *^public fun
FloatArray.getOrNull(index: Int): Float? {\n    return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*^public fun DoubleArray.getOrNull(index: Int): Double? {\n    return if (index >= 0 && index <= lastIndex)
get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of
this array.\n *^public fun BooleanArray.getOrNull(index: Int): Boolean? {\n    return if (index >= 0 && index <=
lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of
bounds of this array.\n *^public fun CharArray.getOrNull(index: Int): Char? {\n    return if (index >= 0 && index
<= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain
element.\n *^public fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n    if
(element == null) {\n        for (index in indices) {\n            if (this[index] == null) {\n                return index\n
            }\n        }\n    } else {\n        for (index in indices) {\n            if (element == this[index]) {\n
                return index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain
element.\n *^public fun ByteArray.indexOf(element: Byte): Int {\n    for (index in indices) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if
the array does not contain element.\n *^public fun ShortArray.indexOf(element: Short): Int {\n    for (index in
indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n
* Returns first index of [element], or -1 if the array does not contain element.\n *^public fun IntArray.indexOf(element:
Int): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n
    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n
*^public fun LongArray.indexOf(element: Long): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not

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contain element.\n */\npublic fun FloatArray.indexOf(element: Float): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.indexOf(element: Double): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last

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element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.last(): T {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n *
Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
ByteArray.last(): Byte {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is
empty.\n */\npublic fun ShortArray.last(): Short {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.last(): Int {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.last(): Long {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n *
Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
FloatArray.last(): Float {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is
empty.\n */\npublic fun DoubleArray.last(): Double {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n *
@throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.last(): Boolean {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return this[lastIndex]\n}\n\n/**\n *
Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
CharArray.last(): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.last(predicate:
(T) -> Boolean): T {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.last(predicate: (Byte) ->
Boolean): Byte {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.last(predicate: (Short) ->
Boolean): Short {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws

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[NoSuchElementException] if no such element is found.\n *\npublic inline fun IntArray.last(predicate: (Int) ->
Boolean): Int {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun LongArray.last(predicate: (Long) ->
Boolean): Long {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun FloatArray.last(predicate: (Float) ->
Boolean): Float {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun DoubleArray.last(predicate:
(Double) -> Boolean): Double {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun BooleanArray.last(predicate:
(Boolean) -> Boolean): Boolean {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n *\npublic inline fun CharArray.last(predicate: (Char) ->
Boolean): Char {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if
(predicate(element)) return element\n    }\n    throw NoSuchElementException("Array contains no element
matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain
element.\n *\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n    if
(element == null) {\n        for (index in indices.reversed()) {\n            if (this[index] == null) {\n                return
index\n            }\n        }\n    } else {\n        for (index in indices.reversed()) {\n            if (element == this[index]) {\n                return
index\n            }\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the
array does not contain element.\n *\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n    for (index in
indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
ShortArray.lastIndexOf(element: Short): Int {\n    for (index in indices.reversed()) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\npublic fun IntArray.lastIndexOf(element: Int): Int {\n    for (index in
indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
LongArray.lastIndexOf(element: Long): Int {\n    for (index in indices.reversed()) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n    for (index in
indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
DoubleArray.lastIndexOf(element: Double): Int {\n    for (index in indices.reversed()) {\n        if (element ==
this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n    for
(index in indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
CharArray.lastIndexOf(element: Char): Int {\n    for (index in indices.reversed()) {\n        if (element == this[index])
{\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is

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empty.\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size -
1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ByteArray.lastOrNull():
Byte? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is
empty.\n */\npublic fun ShortArray.lastOrNull(): Short? {\n    return if (isEmpty()) null else this[size -
1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun IntArray.lastOrNull(): Int?
{\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is
empty.\n */\npublic fun LongArray.lastOrNull(): Long? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun FloatArray.lastOrNull(): Float? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is empty.\n
*/\npublic fun DoubleArray.lastOrNull(): Double? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n *
Returns the last element, or `null` if the array is empty.\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns the last element, or `null` if the array is empty.\n
*/\npublic fun CharArray.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/>\n */\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T>
Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val element
= this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last element
matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns
the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun
CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/>\n */\n * Returns a
random element from this array.\n */\n * @throws NoSuchElementException if this array is empty.\n
*/\n\n/>\n */\n * @SinceKotlin("1.3")\n */\n @kotlin.internal.InlineOnly\n */\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/>\n */\n * Returns a random element from this array.\n */\n * @throws
NoSuchElementException if this array is empty.\n */\n\n/>\n */\n * @SinceKotlin("1.3")\n */\n @kotlin.internal.InlineOnly\n */\npublic
inline fun ByteArray.random(): Byte {\n    return random(Random)\n}\n\n/>\n */\n * Returns a random element from
this array.\n */\n * @throws NoSuchElementException if this array is empty.\n
*/\n\n/>\n */\n * @SinceKotlin("1.3")\n */\n @kotlin.internal.InlineOnly\n */\npublic inline fun ShortArray.random(): Short {\n
return random(Random)\n}\n\n/>\n */\n * Returns a random element from this array.\n */\n * @throws

```



```

NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.random(): Int {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n
    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n
    return random(Random)\n}\n\n/**\n * Returns a random element
from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun <T> Array<out T>.random(random: Random): T {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun ByteArray.random(random: Random): Byte {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun ShortArray.random(random: Random): Short {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun IntArray.random(random: Random): Int {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun LongArray.random(random: Random): Long {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun FloatArray.random(random: Random): Float {\n    if
(isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun DoubleArray.random(random: Random): Double {\n    if (isEmpty())\n        throw
NoSuchElementException("Array is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if
this array is empty.\n */\n@SinceKotlin("1.3")\npublic fun BooleanArray.random(random: Random): Boolean {\n
    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin("1.3")\npublic
fun CharArray.random(random: Random): Char {\n    if (isEmpty())\n        throw NoSuchElementException("Array
is empty.")\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if
this array is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Array<out T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a

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random element from this array, or `null` if this array is empty.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.randomOrNull(): Byte? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.randomOrNull(): Short? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from
this array, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.randomOrNull(): Float? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.randomOrNull(): Double? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.randomOrNull(): Boolean? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
element from this array, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> Array<out T>.randomOrNull(random:
Random): T? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a
random element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun ByteArray.randomOrNull(random: Random):
Byte? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun ShortArray.randomOrNull(random: Random):
Short? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun IntArray.randomOrNull(random: Random): Int?
{\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element
from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun LongArray.randomOrNull(random: Random):
Long? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun FloatArray.randomOrNull(random: Random):
Float? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun DoubleArray.randomOrNull(random: Random):
Double? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
element from this array using the specified source of randomness, or `null` if this array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun BooleanArray.randomOrNull(random: Random):
Boolean? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(size))\n}\n\n/**\n * Returns a random
```

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element from this array using the specified source of randomness, or `null` if this array is empty.
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public fun CharArray.randomOrNull(random: Random):
Char? {
    if (isEmpty())
        return null
    return get(random.nextInt(size))
}
/**
 * Returns the single
element, or throws an exception if the array is empty or has more than one element.
*/
public fun <T> Array<out
T>.single(): T {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 ->
this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/**
 *
Returns the single element, or throws an exception if the array is empty or has more than one
element.
*/
public fun ByteArray.single(): Byte {
    return when (size) {
        0 -> throw NoSuchElementException("Array is
empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element, or throws an exception if the array is empty or has more than one
element.
*/
public fun ShortArray.single(): Short {
    return when (size) {
        0 -> throw
NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw
IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element, or
throws an exception if the array is empty or has more than one element.
*/
public fun IntArray.single(): Int {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -
> throw IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single
element, or throws an exception if the array is empty or has more than one element.
*/
public fun
LongArray.single(): Long {
    return when (size) {
        0 -> throw NoSuchElementException("Array is
empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element, or throws an exception if the array is empty or has more than one
element.
*/
public fun FloatArray.single(): Float {
    return when (size) {
        0 -> throw
NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw
IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element, or
throws an exception if the array is empty or has more than one element.
*/
public fun DoubleArray.single():
Double {
    return when (size) {
        0 -> throw NoSuchElementException("Array is empty.")
        1 ->
this[0]
        else -> throw IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element, or throws an exception if the array is empty or has more
than one element.
*/
public fun BooleanArray.single(): Boolean {
    return when (size) {
        0 -> throw NoSuchElementException("Array
is empty.")
        1 -> this[0]
        else -> throw IllegalArgumentException("Array has more than one
element.")
    }
}
/**
 * Returns the single element, or throws an exception if the array is empty or has more
than one element.
*/
public fun CharArray.single(predicate: (Char) -> Boolean): Char {
    return when (size) {
        0 -> throw
NoSuchElementException("Array is empty.")
        1 -> this[0]
        else -> throw
IllegalArgumentException("Array has more than one element.")
    }
}
/**
 * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.
*/
public
inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {
    var single: T? = 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.")
}
@Suppress("UNCHECKED_CAST")
return single as T
}
/**
 * Returns the single element matching the
given [predicate], or throws exception if there is no or more than one 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.")
            single = element
            found = true
        }
    }
    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")
}
@Suppress("UNCHECKED_CAST")
return single as Byte
}
/**
 * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.
*/
public inline fun
ShortArray.single(predicate: (Short) -> Boolean): Short {
    var single: Short? = 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.")
}
@Suppress("UNCHECKED_CAST")
return single as Short
}

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contains more than one matching element.\")\n        single = element\n        found = true\n    }\n }\n if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n    return single as Short\n}\n}\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
IntArray.single(predicate: (Int) -> Boolean): Int {\n    var single: Int? = null\n    var found = false\n    for (element in
this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array contains more
than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n    return single as Int\n}\n}\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
LongArray.single(predicate: (Long) -> Boolean): Long {\n    var single: Long? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n    return single as Long\n}\n}\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
FloatArray.single(predicate: (Float) -> Boolean): Float {\n    var single: Float? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n    return single as Float\n}\n}\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun
DoubleArray.single(predicate: (Double) -> Boolean): Double {\n    var single: Double? = null\n    var found =
false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Double\n}\n}\n/**\n * Returns the
single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n    var single:
Boolean? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Boolean\n}\n}\n/**\n * Returns
the single element matching the given [predicate], or throws exception if there is no or more than one
matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n    var single:
Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found)
throw IllegalArgumentException("Array contains more than one matching element.")\n            single = element\n
            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Array contains no element
matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as Char\n}\n}\n/**\n * Returns
single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n}\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n    return if
(size == 1) this[0] else null\n}\n}\n/**\n * Returns single element, or `null` if the array is empty or has more than one
element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n    return if (size == 1) this[0] else null\n}\n}\n/**\n *
Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun
IntArray.singleOrNull(): Int? {\n    return if (size == 1) this[0] else null\n}\n}\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n    return
if (size == 1) this[0] else null\n}\n}\n/**\n * Returns single element, or `null` if the array is empty or has more

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than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n    return if (size == 1) this[0] else
null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic
fun DoubleArray.singleOrNull(): Double? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull():
Boolean? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n    return if (size == 1)
this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if
(predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n */\npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n    var single: Byte? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic
inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n    var single: Short? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single
= element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n    var single: Int? = null\n
var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n
single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n    var
single: Long? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if
(found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or
more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean):
Float? {\n    var single: Float? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return
null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element
was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate:
(Double) -> Boolean): Double? {\n    var single: Double? = null\n    var found = false\n    for (element in this) {\n
if (predicate(element)) {\n        if (found) return null\n        single = element\n        found = true\n    }\n}\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given
[predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun
BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    var single: Boolean? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single
= element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n    var single: Char?
= null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return
null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n
require(n >= 0) {\n    "Requested element count $n is less than zero." }\n    return takeLast((size -

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n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.drop(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.drop(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.drop(n: Int): List<Boolean>
{\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.drop(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Array<out T>.dropLast(n: Int): List<T>
{\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.dropLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count \$n is less than zero.\" }\n return take((size -

`n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.dropLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun DoubleArray.dropLast(n: Int): List<Double>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun BooleanArray.dropLast(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun CharArray.dropLast(n: Int): List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -
n.coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if
(!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns
a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements`

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except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  for (index in lastIndex
downTo 0) {\n    if (!predicate(this[index])) {\n      return take(index + 1)\n    }\n  }\n  return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n  for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n    return take(index + 1)\n  }\n}\n  return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n  var yielding = false\n  val list = ArrayList<T>()\n  for
(item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n      list.add(item)\n
yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n  var yielding = false\n  val list =
ArrayList<Byte>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun ShortArray.dropWhile(predicate:
(Short) -> Boolean): List<Short> {\n  var yielding = false\n  val list = ArrayList<Short>()\n  for (item in this)\n
if (yielding)\n    list.add(item)\n  else if (!predicate(item)) {\n    list.add(item)\n    yielding =
true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n  var yielding = false\n  val list =
ArrayList<Int>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n
list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements
except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun LongArray.dropWhile(predicate:
(Long) -> Boolean): List<Long> {\n  var yielding = false\n  val list = ArrayList<Long>()\n  for (item in this)\n
if (yielding)\n    list.add(item)\n  else if (!predicate(item)) {\n    list.add(item)\n    yielding =
true\n  }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n  var yielding = false\n  val list =
ArrayList<Float>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item))
{\n    list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropWhile(predicate:
(Double) -> Boolean): List<Double> {\n  var yielding = false\n  val list = ArrayList<Double>()\n  for (item in
this)\n    if (yielding)\n      list.add(item)\n    else if (!predicate(item)) {\n    list.add(item)\n
yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n  var yielding = false\n
val list = ArrayList<Boolean>()\n  for (item in this)\n    if (yielding)\n      list.add(item)\n    else if
(!predicate(item)) {\n    list.add(item)\n      yielding = true\n    }\n  return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropWhile(predicate:
(Char) -> Boolean): List<Char> {\n  var yielding = false\n  val list = ArrayList<Char>()\n  for (item in this)\n
if (yielding)\n    list.add(item)\n  else if (!predicate(item)) {\n    list.add(item)\n    yielding =

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true\n    }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n *\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n    return
filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n    return
filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n    return
filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n    return
filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n    return
filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n    return
filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n    return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n
return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n *\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n    return
filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns
the result of predicate evaluation on the element.\n *\npublic inline fun <T> Array<out T>.filterIndexed(predicate:
(index: Int, T) -> Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a
list containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes the index of
an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\npublic inline
fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n    return
filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n    return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n
 * Returns a list containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n\n
*\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n    return
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\npublic inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {\n    return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n
 * Returns a list containing only elements matching the given [predicate].\n *\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n\n
*\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n    return
filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\npublic inline fun
DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n    return
filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n *\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\npublic inline fun
BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n    return
filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching

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the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun

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

filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to

the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in

T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed {

index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Byte>>

ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n forEachIndexed {

index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Short>>

ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n forEachIndexed {

index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Int>>

IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n forEachIndexed { index,

element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n *

Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that

takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the

element.\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C,

predicate: (index: Int, Long) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index,

element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the

given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and

the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C :

MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean):

C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n

return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Double>>

DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n forEachIndexed {

index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Boolean>>

BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n forEachIndexed

{ index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *

@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of

predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Char>>

CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed {

index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return

destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */

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*^/npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> { \n  return
filterIsInstanceTo(ArrayList<R>()) \n \n /** \n * Appends all elements that are instances of specified type
parameter R to the given [destination]. \n *^/npublic inline fun <reified R, C : MutableCollection<in R>>
Array<*>.filterIsInstanceTo(destination: C): C { \n  for (element in this) if (element is R)
destination.add(element) \n  return destination \n \n /** \n * Returns a list containing all elements not matching the
given [predicate]. \n *^/npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> { \n
return filterNotTo(ArrayList<T>(), predicate) \n \n /** \n * Returns a list containing all elements not matching the
given [predicate]. \n *^/npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> { \n
return filterNotTo(ArrayList<Byte>(), predicate) \n \n /** \n * Returns a list containing all elements not matching the
given [predicate]. \n *^/npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> { \n
return filterNotTo(ArrayList<Short>(), predicate) \n \n /** \n * Returns a list containing all elements not matching
the given [predicate]. \n *^/npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> { \n
return filterNotTo(ArrayList<Int>(), predicate) \n \n /** \n * Returns a list containing all elements not matching the
given [predicate]. \n *^/npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> { \n
return filterNotTo(ArrayList<Long>(), predicate) \n \n /** \n * Returns a list containing all elements not matching
the given [predicate]. \n *^/npublic inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> { \n
return filterNotTo(ArrayList<Float>(), predicate) \n \n /** \n * Returns a list containing all elements not matching
the given [predicate]. \n *^/npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double>
{ \n  return filterNotTo(ArrayList<Double>(), predicate) \n \n /** \n * Returns a list containing all elements not
matching the given [predicate]. \n *^/npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean):
List<Boolean> { \n  return filterNotTo(ArrayList<Boolean>(), predicate) \n \n /** \n * Returns a list containing all
elements not matching the given [predicate]. \n *^/npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> { \n  return filterNotTo(ArrayList<Char>(), predicate) \n \n /** \n * Returns a list containing
all elements that are not `null`. \n *^/npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> { \n  return
filterNotNullTo(ArrayList<T>()) \n \n /** \n * Appends all elements that are not `null` to the given [destination]. \n
*^/npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C { \n  for
(element in this) if (element != null) destination.add(element) \n  return destination \n \n /** \n * Appends all
elements not matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C { \n  for
(element in this) if (!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all
elements not matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C :
MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C { \n  for
(element in this) if (!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all
elements not matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C :
MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C { \n  for
(element in this) if (!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all
elements not matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C :
MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C { \n  for (element
in this) if (!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all elements
not matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C : MutableCollection<in
Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C { \n  for (element in this) if
(!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all elements not
matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C : MutableCollection<in
Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C { \n  for (element in this) if
(!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all elements not
matching the given [predicate] to the given [destination]. \n *^/npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C { \n  for (element in this) if
(!predicate(element)) destination.add(element) \n  return destination \n \n /** \n * Appends all elements not

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matching the given [predicate] to the given [destination].\n *\npublic inline fun <C : MutableCollection<in
Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n  for (element in this)
if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n *\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n  for (element in this) if
(!predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends all elements matching
the given [predicate] to the given [destination].\n *\npublic inline fun <T, C : MutableCollection<in T>> Array<out
T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n  for (element in this) if (predicate(element))
destination.add(element)\n  return destination\n}\n\n**\n * Appends all elements matching the given [predicate] to
the given [destination].\n *\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C,
predicate: (Byte) -> Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n
return destination\n}\n\n**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) ->
Boolean): C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return
destination\n}\n\n**\n * Appends all elements matching the given [predicate] to the given [destination].\n
*\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean):
C {\n  for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n *
Appends all elements matching the given [predicate] to the given [destination].\n *\npublic inline fun <C :
MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends all
elements matching the given [predicate] to the given [destination].\n *\npublic inline fun <C :
MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends all
elements matching the given [predicate] to the given [destination].\n *\npublic inline fun <C :
MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends all
elements matching the given [predicate] to the given [destination].\n *\npublic inline fun <C :
MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n
for (element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Appends
all elements matching the given [predicate] to the given [destination].\n *\npublic inline fun <C :
MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n**\n * Returns a list
containing elements at indices in the specified [indices] range.\n *\npublic fun <T> Array<out T>.slice(indices:
IntRange): List<T> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start,
indices.endInclusive + 1).asList()\n}\n\n**\n * Returns a list containing elements at indices in the specified
[indices] range.\n *\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n  if (indices.isEmpty()) return
listOf()\n  return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n**\n * Returns a list
containing elements at indices in the specified [indices] range.\n *\npublic fun ShortArray.slice(indices: IntRange):
List<Short> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n**\n * Returns a list containing elements at indices in the specified [indices] range.\n *\npublic
fun IntArray.slice(indices: IntRange): List<Int> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n  if
(indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n**\n * Returns a list containing elements at indices in the specified [indices] range.\n *\npublic
fun FloatArray.slice(indices: IntRange): List<Float> {\n  if (indices.isEmpty()) return listOf()\n  return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n**\n * Returns a list containing elements at
indices in the specified [indices] range.\n *\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n

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if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic
fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n    if (indices.isEmpty()) return listOf()\n    return
copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at
indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n    if
(indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out
T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0)
return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n
return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size
== 0) return emptyList()\n    val list = ArrayList<Byte>(size)\n    for (index in indices) {\n        list.add(get(index))\n
    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun
ShortArray.slice(indices: Iterable<Int>): List<Short> {\n    val size = indices.collectionSizeOrDefault(10)\n    if
(size == 0) return emptyList()\n    val list = ArrayList<Short>(size)\n    for (index in indices) {\n
list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*/\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Int>(size)\n    for
(index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at
specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Long>(size)\n
for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n    val size =
indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Float>(size)\n
for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing
elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n    val
size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list =
ArrayList<Double>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n
 * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>):
List<Boolean> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list
= ArrayList<Boolean>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n
 * Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>):
List<Char> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list =
ArrayList<Char>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n
 * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T>
Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n    val result = arrayOfNulls(this, indices.size)\n    var
targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n    val result = ByteArray(indices.size)\n    var
targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n    val result = ShortArray(indices.size)\n    var
targetIndex = 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
IntArray.sliceArray(indices: Collection<Int>): IntArray {\n    val result = IntArray(indices.size)\n    var targetIndex
= 0\n    for (sourceIndex in indices) {\n        result[targetIndex++] = this[sourceIndex]\n    }\n    return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
LongArray.sliceArray(indices: Collection<Int>): LongArray {\n    val result = LongArray(indices.size)\n    var

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targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n  val result = FloatArray(indices.size)\n  var
targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n  val result = DoubleArray(indices.size)\n
var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n
return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n  val result = BooleanArray(indices.size)\n
var targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n
return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun
CharArray.sliceArray(indices: Collection<Int>): CharArray {\n  val result = CharArray(indices.size)\n  var
targetIndex = 0\n  for (sourceIndex in indices) {\n    result[targetIndex++] = this[sourceIndex]\n  }\n  return
result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
<T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n  if (indices.isEmpty()) return copyOfRange(0, 0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n  if
(indices.isEmpty()) return ByteArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n
* Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
ShortArray.sliceArray(indices: IntRange): ShortArray {\n  if (indices.isEmpty()) return ShortArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n  if
(indices.isEmpty()) return IntArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n
* Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
LongArray.sliceArray(indices: IntRange): LongArray {\n  if (indices.isEmpty()) return LongArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices
in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n  if
(indices.isEmpty()) return FloatArray(0)\n  return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n
* Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n  if (indices.isEmpty()) return DoubleArray(0)\n
return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at
indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray
{\n  if (indices.isEmpty()) return BooleanArray(0)\n  return copyOfRange(indices.start, indices.endInclusive +
1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun
CharArray.sliceArray(indices: IntRange): CharArray {\n  if (indices.isEmpty()) return CharArray(0)\n  return
copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n */\n
* @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<T>(n)\n  for
(item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n
require(n >= 0) { "Requested element count $n is less than zero." }\n  if (n == 0) return emptyList()\n  if (n >=
size) return toList()\n  if (n == 1) return listOf(this[0])\n  var count = 0\n  val list = ArrayList<Byte>(n)\n
for (item in this) {\n    list.add(item)\n    if (++count == n)\n      break\n  }\n  return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n */\n * @throws IllegalArgumentException if [n] is negative.\n */\n * @sample
samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n

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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<Short>(n)
for (item in this) {
    list.add(item)
    if (++count == n) break
}
return list
}

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing first [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing last [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

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

Returns a list containing last [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

public fun ByteArray.takeLast(n: Int): List<Byte> {
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<Byte>(n)
for (index in size - n until size)
    list.add(this[index])
return list
}

Returns a list containing last [n] elements.
@throws IllegalArgumentException if [n] is negative.
@sample samples.collections.Collections.Transformations.take

public fun ShortArray.takeLast(n: Int): List<Short> {
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<Short>(n)

```

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for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun IntArray.takeLast(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Int>(n)\n
for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.takeLast(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Long>(n)\n
for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Float>(n)\n
for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.takeLast(n: Int): List<Double>
{\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<Double>(n)\n for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun BooleanArray.takeLast(n: Int):
List<Boolean> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Boolean>(n)\n for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun CharArray.takeLast(n: Int):
List<Char> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n val size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list
= ArrayList<Char>(n)\n for (index in size - n until size)\n    list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> Array<out
T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n
for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n
return drop(index + 1)\n
}\n
}\n
return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {\n
for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n
return drop(index + 1)\n
}\n
}\n
return toList()\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n
for (index in lastIndex
downTo 0) {\n
if (!predicate(this[index])) {\n
return drop(index + 1)\n
}\n
}\n
return
toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeLastWhile(predicate: (Int)
-> Boolean): List<Int> {\n
for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n
return
drop(index + 1)\n
}\n
}\n
return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the
given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun
LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n
for (index in lastIndex downTo 0) {\n

```



```

    if (!predicate(this[index])) {\n        return drop(index + 1)\n    }\n    return toList()\n}\n\n**\n * Returns
a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun FloatArray.takeLastWhile(predicate:
(Float) -> Boolean): List<Float> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun
BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    for (index in lastIndex
downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return
toList()\n}\n\n**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun CharArray.takeLastWhile(predicate:
(Char) -> Boolean): List<Char> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n
return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n**\n * Returns a list containing first elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic
inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for
(item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun ByteArray.takeWhile(predicate: (Byte)
-> Boolean): List<Byte> {\n    val list = ArrayList<Byte>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n    return list\n}\n\n**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n    val list = ArrayList<Short>()\n    for (item
in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun IntArray.takeWhile(predicate: (Int) ->
Boolean): List<Int> {\n    val list = ArrayList<Int>()\n    for (item in this) {\n        if (!predicate(item))\n
break\n        list.add(item)\n    }\n    return list\n}\n\n**\n * Returns a list containing first elements satisfying the
given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun
LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n    val list = ArrayList<Long>()\n    for (item
in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun FloatArray.takeWhile(predicate:
(Float) -> Boolean): List<Float> {\n    val list = ArrayList<Float>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n    val list =
ArrayList<Double>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n
return list\n}\n\n**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic inline fun BooleanArray.takeWhile(predicate:
(Boolean) -> Boolean): List<Boolean> {\n    val list = ArrayList<Boolean>()\n    for (item in this) {\n        if
(!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n**\n * Returns a list containing first
elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
*\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n    val list =
ArrayList<Char>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n
return list\n}\n\n**\n * Reverses elements in the array in-place.\n *\npublic fun <T> Array<T>.reverse(): Unit {\n

```

```

val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse():
Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse():
Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse():
Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse():
Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse():
Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex = lastIndex\n  for (index in
0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun
DoubleArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var reverseIndex =
lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] = this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\npublic fun BooleanArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0) return\n  var
reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index] =
this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Reverses elements in the
array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n  val midPoint = (size / 2) - 1\n  if (midPoint < 0)
return\n  var reverseIndex = lastIndex\n  for (index in 0..midPoint) {\n    val tmp = this[index]\n    this[index]
= this[reverseIndex]\n    this[reverseIndex] = tmp\n    reverseIndex--\n  }\n}\n\n/**\n * Returns a list with
elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n  if (isEmpty()) return
emptyList()\n  val list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements
in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n  if (isEmpty()) return emptyList()\n  val
list = toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun ShortArray.reversed(): List<Short> {\n  if (isEmpty()) return emptyList()\n  val list =
toMutableList()\n  list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\npublic fun IntArray.reversed(): List<Int> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n
list.reverse()\n  return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
LongArray.reversed(): List<Long> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n
return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
FloatArray.reversed(): List<Float> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n
return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
DoubleArray.reversed(): List<Double> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n
return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
BooleanArray.reversed(): List<Boolean> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n
return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun
CharArray.reversed(): List<Char> {\n  if (isEmpty()) return emptyList()\n  val list = toMutableList()\n  list.reverse()\n
return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic
fun <T> Array<T>.reversedArray(): Array<T> {\n  if (isEmpty()) return this\n  val result = arrayOfNulls(this,
size)\n  val lastIndex = lastIndex\n  for (i in 0..lastIndex)\n    result[lastIndex - i] = this[i]\n  return
result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun

```

```

ByteArray.reversedArray(): ByteArray {
    if (isEmpty()) return this
    val result = ByteArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun ShortArray.reversedArray():
ShortArray {
    if (isEmpty()) return this
    val result = ShortArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun IntArray.reversedArray(): IntArray {
    if (isEmpty()) return this
    val result = IntArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun LongArray.reversedArray(): LongArray {
    if (isEmpty()) return this
    val result = LongArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun FloatArray.reversedArray():
FloatArray {
    if (isEmpty()) return this
    val result = FloatArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun DoubleArray.reversedArray(): DoubleArray {
    if (isEmpty()) return this
    val result = DoubleArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun BooleanArray.reversedArray(): BooleanArray {
    if (isEmpty()) return this
    val result = BooleanArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Returns an array with elements of this array in reversed order.

public fun CharArray.reversedArray(): CharArray {
    if (isEmpty()) return this
    val result = CharArray(size)
    val lastIndex = lastIndex
    for (i in 0..lastIndex)
        result[lastIndex - i] = this[i]
    return result
}

Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.

* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

public inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortBy(compareBy(selector))
}

Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.

* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.

public inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {
    if (size > 1) sortByDescending(compareByDescending(selector))
}

Sorts elements in the array in-place descending 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 fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {
    sortByDescending(reverseOrder())
}

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 ShortArray.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 LongArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts elements in the array in-place descending according to their natural sort order.

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 DoubleArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Sorts elements in the array in-place descending according to their natural sort order.

public fun CharArray.sortDescending(): Unit {
    if (size > 1) {
        sort()
        reverse()
    }
}

Returns a list of all elements sorted 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 fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {
    return sortedArray().asList()
}

Returns a list of all elements sorted according to their natural sort order.

public fun ByteArray.sorted(): List<Byte> {
    return

```


according to natural sort order of the value returned by specified [selector] function.

```

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 descending according to natural sort order of the value returned by specified [selector] function.

```

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 descending according to natural sort order of the value returned by specified [selector] function.

```

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 descending according to natural sort order of the value returned by specified [selector] function.

```

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 descending 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 fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {
    return sortedWith(reverseOrder())
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun ByteArray.sortedDescending(): List<Byte> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun ShortArray.sortedDescending(): List<Short> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun IntArray.sortedDescending(): List<Int> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun LongArray.sortedDescending(): List<Long> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun FloatArray.sortedDescending(): List<Float> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun DoubleArray.sortedDescending(): List<Double> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted descending according to their natural sort order.

```

public fun CharArray.sortedDescending(): List<Char> {
    return copyOf().apply { sort() }.reversed()
}

```

* Returns a list of all elements sorted according to the specified [comparator].

* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

```

public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
    return sortedArrayWith(comparator).asList()
}

```

* Returns a list of all elements sorted according to the specified [comparator].

```

public 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].

```

public 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].

```

public 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].

```

public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
    return toTypedArray().apply { sortWith(comparator) }.asList()
}

```

* Returns a list of all elements sorted according to the specified [comparator].

```

public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {
    return toTypedArray().apply { 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].

its subrange into the [destination] array and returns that array.

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

@param destination the array to copy to.

@param destinationOffset the position in the [destination] array to copy to, 0 by default.

@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

or when that index is out of the [destination] array indices range.

@return the [destination] array.

```

@SinceKotlin("1.3")
public expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>

```

Copies this array or its subrange into the [destination] array and returns that array.

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

@param destination the array to copy to.

@param destinationOffset the position in the [destination] array to copy to, 0 by default.

@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

or when that index is out of the [destination] array indices range.

@return the [destination] array.

```

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

```

Copies this array or its subrange into the [destination] array and returns that array.

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

@param destination the array to copy to.

@param destinationOffset the position in the [destination] array to copy to, 0 by default.

@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

or when that index is out of the [destination] array indices range.

@return the [destination] array.

```

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

```

Copies this array or its subrange into the [destination] array and returns that array.

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

@param destination the array to copy to.

@param destinationOffset the position in the [destination] array to copy to, 0 by default.

@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.

@throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],

or when that index is out of the [destination] array indices range.

@return the [destination] array.

```

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

```

Copies this array or its subrange into the [destination] array and returns that array.

It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.

@param destination the array to copy to.

@param destinationOffset the position in the [destination] array to copy to, 0 by default.

@param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.

@param endIndex the end (exclusive) of the subrange to copy, size of this array by default.

@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex


```

*\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun <T> Array<T>.copyOf():
Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun ByteArray.copyOf():
ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun ShortArray.copyOf():
ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n
 * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun LongArray.copyOf():
LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun FloatArray.copyOf():
FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun DoubleArray.copyOf():
DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun BooleanArray.copyOf():
BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic expect fun CharArray.copyOf():
CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n *
The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the
size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of
the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic expect fun
ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic
expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the
original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values
if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the
original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values
if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to
the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/**\n * Returns new array which is a

```

copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample

`samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`\n * \npublic expect fun

`BooleanArray.copyOf(newSize: Int): BooleanArray`\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (‘\u0000’) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (‘\u0000’) values.\n * \n * @sample

`samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf`\n * \npublic expect fun

`CharArray.copyOf(newSize: Int): CharArray`\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample

`samples.collections.Arrays.CopyOfOperations.resizingCopyOf`\n * \n@Suppress(“NO_ACTUAL_FOR_EXPECT”)\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>

\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n * \n@Suppress(“NO_ACTUAL_FOR_EXPECT”)\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>

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

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

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

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

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

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

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

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

\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by

default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Fills this array or its subrange with the specified [element] value. \n * \n * @param fromIndex the start of the range (inclusive), 0 by default. \n * @param toIndex the end of the range (exclusive), size of this array by default. \n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array. \n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex]. \n */ \n @SinceKotlin("1.3") \n public expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val <T> Array<out T>.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val ByteArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val ShortArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val IntArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val LongArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val FloatArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val DoubleArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val BooleanArray.indices: IntRange \n \n get() = IntRange(0, lastIndex) \n \n /** \n * Returns the range of valid indices for the array. \n */ \n public val CharArray.indices: IntRange \n \n get() = IntRange(0, lastIndex)

Returns the range of valid indices for the array.
`public val IntArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns the range of valid indices for the array.
`public val LongArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns the range of valid indices for the array.
`public val FloatArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns the range of valid indices for the array.
`public val DoubleArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns the range of valid indices for the array.
`public val BooleanArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns the range of valid indices for the array.
`public val CharArray.indices: IntRange`
`get() = IntRange(0, lastIndex)`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun <T> Array<out T>.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun ByteArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun ShortArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun IntArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun LongArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun FloatArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun DoubleArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is empty.
`@kotlin.internal.InlineOnly`
`public inline fun BooleanArray.isEmpty(): Boolean`
`{ return size == 0 }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun <T> Array<out T>.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun ByteArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun ShortArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun IntArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun LongArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun FloatArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun DoubleArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns `true` if the array is not empty.
`@kotlin.internal.InlineOnly`
`public inline fun BooleanArray.isNotEmpty(): Boolean`
`{ return !isEmpty() }`
Returns the last valid index for the array.
`public val <T> Array<out T>.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val ByteArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val ShortArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val IntArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val LongArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val FloatArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val DoubleArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val BooleanArray.lastIndex: Int`
`get() = size - 1`
Returns the last valid index for the array.
`public val CharArray.lastIndex: Int`
`get() = size - 1`
Returns an array containing all elements of the original array and then the given [element].
`@Suppress("NO_ACTUAL_FOR_EXPECT")`
`public expect operator fun <T> Array<T>.plus(element: T): Array<T>`
Returns an array containing all elements of the original array and then the given [element].
`public expect operator fun ByteArray.plus(element: Byte): ByteArray`
Returns an array containing all

elements of the original array and then the given [element].\n *\npublic expect operator fun

ShortArray.plus(element: Short): ShortArray\n\n**\n * Returns an array containing all elements of the original array and then the given [element].\n *\npublic expect operator fun

IntArray.plus(element: Int): IntArray\n\n**\n * Returns an array containing all elements of the original array and then the given [element].\n *\npublic expect operator fun

LongArray.plus(element: Long): LongArray\n\n**\n * Returns an array containing all elements of the original array and then the given [element].\n *\npublic expect operator fun

FloatArray.plus(element: Float): FloatArray\n\n**\n * Returns an array containing all elements of the original array and then the given [element].\n *\npublic expect operator fun

DoubleArray.plus(element: Double): DoubleArray\n\n**\n * Returns an array containing all elements of the original array and then the given [element].\n *\npublic expect operator fun

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

CharArray.plus(element: Char): CharArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun

<T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

ShortArray.plus(elements: Collection<Short>): ShortArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

IntArray.plus(elements: Collection<Int>): IntArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

LongArray.plus(elements: Collection<Long>): LongArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

FloatArray.plus(elements: Collection<Float>): FloatArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\npublic expect operator fun

CharArray.plus(elements: Collection<Char>): CharArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n *\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun

<T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n *\npublic expect operator fun

ByteArray.plus(elements: ByteArray): ByteArray\n\n**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n *\npublic expect operator fun

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

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

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

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

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

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

CharArray.plus(elements: CharArray): CharArray\n\n**\n * Returns an array containing all elements of the original

array and then the given [element].\n *^\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T> Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray {\n return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a **typed** object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\nReturns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <T, K, V>


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Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>

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CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Short>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Long>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Float>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Double>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Boolean>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n *\npublic inline fun <K>
CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n  val capacity =
mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n
val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample

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the entry iteration order of the original array.\n * \n * @sample

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samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V>
{\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V>
{\n  val capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by
[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n *\npublic inline
fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n  val
capacity = mapCapacity(size).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and
value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <T, K, M :
MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n  for
(element in this) {\n    destination.put(keySelector(element), element)\n  }\n  return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n  for
(element in this) {\n    destination.put(keySelector(element), element)\n  }\n  return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *

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```

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n
for (element in this) {\n    destination.put(keySelector(element), element)\n } \n return destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for
(element in this) {\n    destination.put(keySelector(element), element)\n } \n return destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n
for (element in this) {\n    destination.put(keySelector(element), element)\n } \n return destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for
(element in this) {\n    destination.put(keySelector(element), element)\n } \n return destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any
two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M
{\n for (element in this) {\n    destination.put(keySelector(element), element)\n } \n return
destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic
inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector:
(Boolean) -> K): M {\n for (element in this) {\n    destination.put(keySelector(element), element)\n } \n
return destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where
key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n *\npublic
inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) ->
K): M {\n for (element in this) {\n    destination.put(keySelector(element), element)\n } \n return
destination\n}\n\n**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is
provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to
elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n *\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -
> K, valueTransform: (T) -> V): M {\n for (element in this) {\n    destination.put(keySelector(element),
valueTransform(element))\n } \n return destination\n}\n\n**\n
* Populates and returns the [destination] mutable
map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by

```

the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample

```

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

```

and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function and value is provided by the [valueTransform] function 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.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform

```

public inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> 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 provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo

```

public inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

```

Populates and returns the [destination] mutable map with key-value pairs provided by [transform] function applied to each element of the given array. If any of two pairs would have the same key the last one gets added to the map.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n
for (element in this) {\n    destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) ->
Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    } \n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C :
MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n    for (item in this) {\n
destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n    for
(item in this) {\n        destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>>
ShortArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    } \n
return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n    for (item in this) {\n
destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n    for
(item in this) {\n        destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>>
FloatArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    } \n
return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n    for (item in this) {\n
destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements to the given [destination]
collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n
    for (item in this) {\n        destination.add(item)\n    } \n return destination\n}\n\n/**\n * Appends all elements
to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>>
CharArray.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    } \n
return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet():
HashSet<T> {\n    return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all
elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n    return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun ShortArray.toHashSet(): HashSet<Short> {\n    return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun IntArray.toHashSet(): HashSet<Int> {\n    return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n *
Returns a [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n    return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun FloatArray.toHashSet(): HashSet<Float> {\n    return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun DoubleArray.toHashSet(): HashSet<Double> {\n    return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic
fun BooleanArray.toHashSet(): HashSet<Boolean> {\n    return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n
*/\npublic fun CharArray.toHashSet(): HashSet<Char> {\n    return
toCollection(HashSet<Char>(mapCapacity(size)))\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun <T> Array<out T>.toList(): List<T> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n

```



```

*\npublic fun ByteArray.toList(): List<Byte> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun ShortArray.toList(): List<Short> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun IntArray.toList(): List<Int> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun LongArray.toList(): List<Long> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun FloatArray.toList(): List<Float> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun DoubleArray.toList(): List<Double> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun BooleanArray.toList(): List<Boolean> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [List] containing all elements.\n */
*\npublic fun CharArray.toList(): List<Char> {\n    return when (size) {\n        0 -> emptyList()\n        1 ->
listOf(this[0])\n        else -> this.toMutableList()\n    }\n}\n\n/**\n * Returns a [MutableList] filled with all elements
of this array.\n */
*\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n    return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n    val list = ArrayList<Byte>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n    val list = ArrayList<Short>(size)\n    for (item
in this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun IntArray.toMutableList(): MutableList<Int> {\n    val list = ArrayList<Int>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun LongArray.toMutableList(): MutableList<Long> {\n    val list = ArrayList<Long>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n    val list = ArrayList<Float>(size)\n    for (item in this)
list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n    val list = ArrayList<Double>(size)\n    for (item in
this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */
*\npublic fun BooleanArray.toMutableList(): MutableList<Boolean> {\n    val list = ArrayList<Boolean>(size)\n    for (item in
this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this
array.\n */
*\npublic fun CharArray.toMutableList(): MutableList<Char> {\n    val list = ArrayList<Char>(size)\n    for (item in
this) list.add(item)\n    return list\n}\n\n/**\n * Returns a [Set] of all elements.\n */
*\n * The returned set
preserves the element iteration order of the original array.\n */
*\npublic fun <T> Array<out T>.toSet(): Set<T> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<T>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */
*\n * The
returned set preserves the element iteration order of the original array.\n */
*\npublic fun ByteArray.toSet():
Set<Byte> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */
*\n * The
returned set preserves the element iteration order of the original array.\n */
*\npublic fun ShortArray.toSet():
Set<Short> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */
*\n * The
returned set preserves the element iteration order of the original array.\n */
*\npublic fun IntArray.toSet():
Set<Int> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n    }\n}\n\n/**\n * Returns a [Set] of all elements.\n */
*\n * The
returned set preserves the element iteration order of the original array.\n */
*\npublic fun LongArray.toSet():
Set<Long> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->

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toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n } \n\n\n\n * Returns a [Set] of all elements.\n * \n
* The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet():
Set<Float> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n } \n\n\n\n * Returns a [Set] of all elements.\n * \n
* The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet():
Set<Double> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else ->
toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n } \n\n\n\n * Returns a [Set] of all elements.\n * \n
\n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
BooleanArray.toSet(): Set<Boolean> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n
    else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n } \n\n\n\n * Returns a [Set] of all
elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun
CharArray.toSet(): Set<Char> {\n    return when (size) {\n        0 -> emptySet()\n        1 -> setOf(this[0])\n        else -
-> toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n } \n\n\n\n * Returns a single list of all elements
yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n\n\n *
Returns a single list of all elements yielded from results of [transform] function being invoked on each element of
original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun
<R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n} \n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n} \n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n\n\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n} \n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n} \n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R>
BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(),
transform)\n} \n\n\n\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n} \n\n\n\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n

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destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n } \n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) ->
Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
} \n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being
invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun
<T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return
groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original
array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry
iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K>
ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n return groupByTo(LinkedHashMap<K,
MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic
inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n return
groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map

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where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated

with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n
return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
values returned by the [valueTransform] function applied to each element of the original array\n * by the key
returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is
associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the
keys produced from the original array.\n * \n * @sample

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samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V>
CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to

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destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n    for (element in this) {\n        val key =
keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list
= destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n */\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n
        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n    return object : Grouping<T,
K> {\n        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n        override fun
keyOf(element: T): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform:
(T) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ByteArray.map(transform: (Byte)
-> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform:
(Short) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) ->
R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results
of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform:
(Long) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing
the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float)
-> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform:

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(Double) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n * \npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * \n * @sample samples.collections.Collections.Transformations.map\n * \npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n * \npublic inline fun <T, R : Any> Array<out

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T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n  return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends only the non-null results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out
T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n  forEachIndexed { index,
element -> transform(index, element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the
given [transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in
R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n  var index = 0\n  for (item in
this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in
R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n  var index = 0\n  for
(item in this)\n    destination.add(transform(index++, item))\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given

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[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>>
CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n    var index = 0\n    for (item in
this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Returns a list containing
only the non-null results of applying the given [transform] function\n * to each element in the original array.\n
*/\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n    return
mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in
the original array\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R :
Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n
    forEach { element -> transform(element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C,
transform: (T) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n    for (item in this)\n
destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n    for (item in
this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n
    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an
[IndexValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out
T>.withIndex(): Iterable<IndexedValue<T>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a
lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that
element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n    return
IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>>

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{\n  return IndexingIterable { iterator() }\n}\n/n/**\n * Returns a lazy [Iterable] that wraps each element of the
original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic
fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n  return IndexingIterable { iterator() }\n}\n/n/n/**\n
* Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the
index of that element and the element itself.\n */\npublic fun FloatArray.withIndex():
Iterable<IndexedValue<Float>> {\n  return IndexingIterable { iterator() }\n}\n/n/n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n  return
IndexingIterable { iterator() }\n}\n/n/n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n
* into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun
BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n  return IndexingIterable { iterator()
}\n}\n/n/n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue]
containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex():
Iterable<IndexedValue<Char>> {\n  return IndexingIterable { iterator() }\n}\n/n/n/**\n * Returns a list containing
only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Array<out
T>.distinct(): List<T> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing only distinct
elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
fun ByteArray.distinct(): List<Byte> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing
only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ShortArray.distinct():
List<Short> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
IntArray.distinct(): List<Int> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing only
distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were
in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
*/\npublic fun LongArray.distinct(): List<Long> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a
list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun FloatArray.distinct():
List<Float> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun
DoubleArray.distinct(): List<Double> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct():
List<Boolean> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing only distinct
elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
fun CharArray.distinct(): List<Char> {\n  return this.toMutableSet().toList()\n}\n/n/n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out

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T>.distinctBy(selector: (T) -> K): List<T> {\n  val set = HashSet<K>()\n  val list = ArrayList<T>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]\n * function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Byte>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Short>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nIntArray.distinctBy(selector: (Int) -> K): List<Int> {\n  val set = HashSet<K>()\n  val list = ArrayList<Int>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given\n * [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source\n * array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline\nfun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Long>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nFloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Float>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nDoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Double>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nBooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Boolean>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys\n * returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they\n * were in the source array.\n * \n * @sample\n * samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>\nCharArray.distinctBy(selector: (Char) -> K): List<Char> {\n  val set = HashSet<K>()\n  val list =\n  ArrayList<Char>()\n  for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n}

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`return list`
`\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the`

element iteration order of the original array.

```

public infix fun IntArray.subtract(other: Iterable<Int>): Set<Int>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

* The returned set preserves the element iteration order of the original array.

```

public infix fun LongArray.subtract(other:
Iterable<Long>): Set<Long>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

* The returned set preserves the element iteration order of the original array.

```

public infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

* The returned set preserves the element iteration order of the original array.

```

public infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

* The returned set preserves the element iteration order of the original array.

```

public infix fun BooleanArray.subtract(other: Iterable<Boolean>):
Set<Boolean>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a set containing all elements that are contained by this array and not contained by the specified collection.

* The returned set preserves the element iteration order of the original array.

```

public infix fun CharArray.subtract(other: Iterable<Char>): Set<Char>
{
    val set = this.toMutableSet()
    set.removeAll(other)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun <T> Array<out T>.toMutableSet(): MutableSet<T>
{
    val set = LinkedHashSet<T>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun ByteArray.toMutableSet(): MutableSet<Byte>
{
    val set = LinkedHashSet<Byte>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun ShortArray.toMutableSet(): MutableSet<Short>
{
    val set = LinkedHashSet<Short>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun IntArray.toMutableSet(): MutableSet<Int>
{
    val set = LinkedHashSet<Int>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun LongArray.toMutableSet(): MutableSet<Long>
{
    val set = LinkedHashSet<Long>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun FloatArray.toMutableSet(): MutableSet<Float>
{
    val set = LinkedHashSet<Float>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun DoubleArray.toMutableSet(): MutableSet<Double>
{
    val set = LinkedHashSet<Double>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun BooleanArray.toMutableSet(): MutableSet<Boolean>
{
    val set = LinkedHashSet<Boolean>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a mutable set containing all distinct elements from the given array.

* The returned set preserves the element iteration order of the original array.

```

public fun CharArray.toMutableSet(): MutableSet<Char>
{
    val set = LinkedHashSet<Char>(mapCapacity(size))
    for (item in this) set.add(item)
    return set
}

```

* Returns a set containing all distinct elements from both collections.

* The returned set preserves the element iteration order of the original array.

* Those elements of the [other] collection that are unique are iterated in the


```

(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
IntArray.all(predicate: (Int) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n
return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean):
Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if
all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n    for (element in this) if
(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun
DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return
false\n    return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) ->
Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean):
Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if
array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun
<T> Array<out T>.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any():
Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n    return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun <T> Array<out
T>.any(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun ByteArray.any(predicate:
(Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun ShortArray.any(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun IntArray.any(predicate: (Int) -
> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun LongArray.any(predicate:

```

```

(Long) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate:
(Float) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate:
(Double) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate:
(Boolean) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate:
(Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Array<out T>.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun IntArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the
number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.count(): Int {\n  return size\n}\n\n/**\n * Returns the number of elements in this array.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n  return size\n}\n\n/**\n * Returns
the number of elements in this array.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n\npublic inline fun
<T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n */\n\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n  var count = 0\n  for
(element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n */\n\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n  var
count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n */\n\npublic inline fun IntArray.count(predicate: (Int) ->
Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n\npublic inline fun
LongArray.count(predicate: (Long) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n */\n\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n  var count = 0\n  for
(element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n */\n\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n
var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n */\n\npublic inline fun BooleanArray.count(predicate: (Boolean)
-> Boolean): Int {\n  var count = 0\n  for (element in this) if (predicate(element)) ++count\n  return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n\npublic inline fun
CharArray.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n  for (element in this) if
(predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right to current accumulator value and each element.\n */\n\npublic inline fun <T, R>
Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n  var accumulator = initial\n  for (element in this)

```

```

accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n
*/\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator
value and each element.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R
{\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc:
R, Int) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator,
element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R>
LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n  var accumulator = initial\n  for (element in this)
accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n
*/\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator
value and each element.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R):
R {\n  var accumulator = initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right
to current accumulator value and each element.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation:
(acc: R, Boolean) -> R): R {\n  var accumulator = initial\n  for (element in this) accumulator =
operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline
fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n  var accumulator = initial\n  for (element
in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline
fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n  var index = 0\n
var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left
to right\n * to current accumulator value and each element with its index in the original array.\n * @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation:
(index: Int, acc: R, Byte) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this)
accumulator = operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element with its index in the original array.\n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline
fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n  var index = 0\n
var accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R,
Int) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator =

```

```

operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R>
LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R,
Float) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator =
operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc:
R, Boolean) -> R): R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator =
operation(index++, accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its
index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator
value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R,
operation: (T, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n
  accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from right to left to each element and current accumulator
value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n  var index
= lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation:
(Int, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n
  accumulator = operation(get(index--), accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from right to left to each element and current accumulator
value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n  var index
= lastIndex\n  var accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--),
accumulator)\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying
[operation] from right to left to each element and current accumulator value.\n */\npublic 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> 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> 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 <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, 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.
// @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 <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, 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.
// @param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

ShortArray.foldRightIndexed(initial: R, operation: (index: Int, 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 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 <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, 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.
// @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 <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.
// @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 <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.

```

    * @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 <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.
    * @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 <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.
    * @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 <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
    }
    * Performs the given [action] on each element.
    */
    public inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun
    ByteArray.forEach(action: (Byte) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun IntArray.forEach(action: (Int) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun LongArray.forEach(action: (Long) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element.
    */
    public inline fun
    CharArray.forEach(action: (Char) -> Unit): Unit {
        for (element in this)
            action(element)
    }
    * Performs the given [action] on each element, providing sequential index with the element.
    * @param [action] function that takes the index of an element and the element itself
    and performs the desired action on the element.
    */
    public inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {
        var index = 0
        for (item in this)
            action(index++, item)
    }
    * Performs the given [action] on each element, providing sequential index with the element.
    * @param [action] function that takes the index of an element and the element itself
    and performs the desired action on the element.
    */
    public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
        var index = 0
        for (item in this)
            action(index++, item)
    }
    * Performs the given [action] on each element, providing sequential index with the element.
    * @param [action] function that takes the index of an element and the element itself
    and performs the desired action on the element.
    */
    public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
        var index = 0
        for (item in this)
            action(index++, item)
    }
    * Performs the given [action] on each element, providing sequential index with the element.
    * @param [action] function that takes the index of an element and the element itself
    and performs the desired action on the element.
    */
    public inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
        var index = 0
        for (item in this)
            action(index++, item)
    }
    * Performs the given [action] on each element, providing sequential index with the element.
    * @param [action] function that takes the index of an element and the element itself
    and performs the desired action on the element.
    */
    public inline fun

```

```

LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
public inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
public inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the desired action on the element.
 */
public inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
    var index = 0
    for (item in this)
        action(index++, item)
}

/** 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 Double>.max(): Double? {
    if (isEmpty()) return null
    var max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        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`.
 */
@SinceKotlin("1.1")
public fun Array<out Float>.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 (e.isNaN()) return e
        if (max < e) max = e
    }
    return max
}

/** Returns the largest element or `null` if there are no elements.
 */
public fun <T : Comparable<T>> Array<out T>.max(): T? {
    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.
 */
public fun ByteArray.max(): Byte? {
    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.
 */
public fun ShortArray.max(): Short? {
    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.
 */
public fun IntArray.max(): Int? {
    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.
 */
public fun LongArray.max(): Long? {
    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`.
 */
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 (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 max = this[0]
    if (max.isNaN()) return max
    for (i in 1..lastIndex) {
        val e = this[i]
        if (e.isNaN()) return e
        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.
 * @sample
 */
samples.collections.Collections.Aggregates.maxBy

/** Returns the largest element or `null` if there are no elements.
 */
public inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {
    if (isEmpty()) return null
    var maxElem = this[0]
    val lastIndex = this.lastIndex
    if (lastIndex == 0) return maxElem
    var maxValue = selector(maxElem)
    for (i in

```

```

1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.maxBy(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
IntArray.maxBy(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
LongArray.maxBy(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
FloatArray.maxBy(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i\n    in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value\n * of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
DoubleArray.maxBy(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for\n    (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest\n * value of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return null\n    var maxElem =\n    this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =\n    selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)\n        {\n            maxElem = e\n            maxValue = v\n        }\n    }\n }\n return maxElem\n}\n\n/**\n * Returns the first\n * element yielding the largest value of the given function or `null` if there are no elements.\n */\n * @sample\n * samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.maxBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val\n    lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i

```



```

in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v) {\n        maxElem = e\n        maxValue = v\n    }\n } \n } \n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Array<out Double>.min(): Double? {\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Array<out Float>.min(): Float? {\n    if (isEmpty()) return null\n    var min = this[0]\n    if (min.isNaN()) return min\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ByteArray.min(): Byte? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ShortArray.min(): Short? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest

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element or `null` if there are no elements.\n *^\npublic fun IntArray.min(): Int? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *^\npublic fun LongArray.min(): Long? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *^\n * If any of elements is `NaN` returns `NaN`.\n *^\npublic fun FloatArray.min(): Float? {\n  if (isEmpty()) return null\n  var min = this[0]\n  if (min.isNaN()) return min\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (e.isNaN()) return e\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *^\n * If any of elements is `NaN` returns `NaN`.\n *^\npublic fun DoubleArray.min(): Double? {\n  if (isEmpty()) return null\n  var min = this[0]\n  if (min.isNaN()) return min\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (e.isNaN()) return e\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *^\npublic fun CharArray.min(): Char? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    if (min > e) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *^\n * @sample\n * samples.collections.Collections.Aggregates.minBy\n *^\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n  if (isEmpty()) return null\n  var minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in

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1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) {\n        minElem = e\n        minValue = v\n    }\n } \n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value\n of the given function or `null` if there are no elements.\n *\n * @sample\n samples.collections.Collections.Aggregates.minBy\n *\npublic inline fun <R : Comparable<R>>\n DoubleArray.minBy(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i\n in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n } \n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value\n of the given function or `null` if there are no elements.\n *\n * @sample\n samples.collections.Collections.Aggregates.minBy\n *\npublic inline fun <R : Comparable<R>>\n BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return null\n    var minElem =\n this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =\n selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)\n {\n            minElem = e\n            minValue = v\n        }\n    }\n } \n return minElem\n}\n\n/**\n * Returns the first\n element yielding the smallest value of the given function or `null`\n if there are no elements.\n *\n * @sample\n samples.collections.Collections.Aggregates.minBy\n *\npublic inline fun <R : Comparable<R>>\n CharArray.minBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var minElem = this[0]\n    val\n lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue = selector(minElem)\n    for (i in\n 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    }\n } \n return minElem\n}\n\n/**\n * Returns the first element having the smallest value\n according to the provided [comparator] or `null` if there are no elements.\n *\npublic fun <T> Array<out\n T>.minWith(comparator: Comparator<in T>): T? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in\n 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n } \n return\n min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or\n `null` if there are no elements.\n *\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n    if\n (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n (comparator.compare(min, e) > 0) min = e\n    }\n } \n return min\n}\n\n/**\n * Returns the first element having the\n smallest value according to the provided [comparator] or `null` if there are no elements.\n *\npublic fun\n ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n    if (isEmpty()) return null\n    var min =\n this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]\n or `null` if there are no elements.\n *\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n    if\n (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n (comparator.compare(min, e) > 0) min = e\n    }\n } \n return min\n}\n\n/**\n * Returns the first element having the\n smallest value according to the provided [comparator] or `null` if there are no elements.\n *\npublic fun\n LongArray.minWith(comparator: Comparator<in Long>): Long? {\n    if (isEmpty()) return null\n    var min =\n this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]\n or `null` if there are no elements.\n *\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float?\n {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n (comparator.compare(min, e) > 0) min = e\n    }\n } \n return min\n}\n\n/**\n * Returns the first element having the\n smallest value according to the provided [comparator] or `null` if there are no elements.\n *\npublic fun\n DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n    if (isEmpty()) return null\n    var min =\n this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]\n or `null` if there are no elements.\n *\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>):\n Boolean? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if\n (comparator.compare(min, e) > 0) min = e\n    }\n } \n return min\n}\n\n/**\n * Returns the first element having the

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smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun
CharArray.minWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var min =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out
T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate:
(Byte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate:
(Short) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int)
-> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n *
Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate:
(Long) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate:
(Float) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate:
(Double) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return
true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))
return false\n    return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:
(Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return false\n    return

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true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to
current accumulator value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = this[0]\n for (index
in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n
* Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * @param [operation] function that takes
the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator

```

```

value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun <S, T : S>
Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator: S = this[0]\n for (index
in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun
DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n
throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]

```

```

function that takes the index of an element, current accumulator value
and the element itself and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, 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.
@sample samples.collections.Collections.Aggregates.reduce
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 the first element and applying [operation] from left to right to current accumulator value and each element. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S> Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.
@sample samples.collections.Collections.Aggregates.reduceOrNull
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {
    if (isEmpty())
        return null
    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. Returns null if the array is empty.

```

samples.collections.Collections.Aggregates.reduceOrNull
*/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {
    if (isEmpty()) return null
    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. Returns null if the array is empty.

```

samples.collections.Collections.Aggregates.reduceOrNull
*/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic inline fun BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {
    if (isEmpty()) return null
    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. Returns null if the array is empty.

```

samples.collections.Collections.Aggregates.reduceOrNull
*/n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic inline fun CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty()) return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(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.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic 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.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic 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.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic 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.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic 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.

```

samples.collections.Collections.Aggregates.reduceRight
*/npublic 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.
@sample samples.collections.Collections.Aggregates.reduceRight
public inline
fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
    get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return
    accumulator
}
Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
    var index = lastIndex
    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator =
    get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return
    accumulator
}
Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = get(index--)
    while
    (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
Accumulates value starting with 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.
@sample samples.collections.Collections.Aggregates.reduceRight
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: S = 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.
@sample samples.collections.Collections.Aggregates.reduceRight
public inline
fun ByteArray.reduceRightIndexed(operation: (index: Int, 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(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.
@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
ShortArray.reduceRightIndexed(operation: (index: Int, 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(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.
@sample
samples.collections.Collections.Aggregates.reduceRight
public inline fun
IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {
    var index =
    lastIndex
    if (index

```

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< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return\n    accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation]\n * function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic\ninline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n    var index =\n    lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),\n        accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element\n * and applying [operation] from right to left\n * to each element with its index in the original array and current\n * accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and\n * current accumulator value, and calculates the next accumulator value.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun\nFloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n    var index =\n    lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),\n        accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element\n * and applying [operation] from right to left\n * to each element with its index in the original array and current\n * accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and\n * current accumulator value, and calculates the next accumulator value.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun\nDoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n    var index =\n    lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),\n        accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element\n * and applying [operation] from right to left\n * to each element with its index in the original array and current\n * accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and\n * current accumulator value, and calculates the next accumulator value.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun\nBooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n    var\n    index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var\n    accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index),\n        accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element\n * and applying [operation] from right to left\n * to each element with its index in the original array and current\n * accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and\n * current accumulator value, and calculates the next accumulator value.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun\nCharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n    var accumulator =\n    get(index--)\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from\n * right to left to each element and current accumulator value. Returns null if the array is empty.\n * @sample\n * samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out\nT>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    var index = lastIndex\n    if (index < 0) return null\n    var accumulator: S = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--),\n        accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying

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[operation] from right to left to each element and current accumulator value. Returns null if the array is empty.\n *
\n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ByteArray.reduceRightOrNull(operation:
(Byte, acc: Byte) -> Byte): Byte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun ShortArray.reduceRightOrNull(operation:
(Short, acc: Short) -> Short): Short? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun IntArray.reduceRightOrNull(operation:
(Int, acc: Int) -> Int): Int? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--
)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun LongArray.reduceRightOrNull(operation:
(Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun FloatArray.reduceRightOrNull(operation:
(Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun DoubleArray.reduceRightOrNull(operation:
(Double, acc: Double) -> Double): Double? {\n var index = lastIndex\n if (index < 0) return null\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from
right to left to each element and current accumulator value. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with last element and applying [operation] from right to left to each element and current accumulator value.
Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return

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accumulator\n}\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise
it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

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samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator =
initial\n  for (element in this) {\n    accumulator = operation(accumulator, element)\n    result.add(accumulator)\n  }\n
return result\n}\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to

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[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val
result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n
val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n
val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n    if (isEmpty()) return listOf(initial)\n    val
result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    if
(isEmpty()) return listOf(initial)\n    val result = ArrayList<R>(size + 1).apply { add(initial) }\n    var accumulator =
initial\n    for (index in indices) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the

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next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n  if (isEmpty()) return
listOf(initial)\n  val result = ArrayList<R>(size + 1).apply { add(initial) }\n  var accumulator = initial\n  for
(index in indices) {\n    accumulator = operation(index, accumulator, this[index])\n    result.add(accumulator)\n
  }\n  return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n *

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otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(index in indices) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and the element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out
T>.scanReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var accumulator: S
= this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n
accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.scanReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty()) return emptyList()\n
var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator) }\n for (index in 1 until
size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return
result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next

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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.scanReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.scanReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return emptyList()\n var
accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for (index in 1 until size)
{\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return
result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.scanReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.scanReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n if (isEmpty()) return emptyList()\n
var accumulator = this[0]\n val result = ArrayList<Float>(size).apply { add(accumulator) }\n for (index in 1
until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return
result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from
left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n *
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.scanReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
}\n return result}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with the first element of
this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.scanReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Boolean>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value

```


and an element, and calculates the next accumulator value.

`samples.collections.Collections.Aggregates.scanReduce`

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
CharArray.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

`scanReduce` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S> Array<out
```

```
T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n    if (isEmpty()) return emptyList()\n    var accumulator: S = this[0]\n    val result = ArrayList<S>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

`scanReduceIndexed` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
ByteArray.scanReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n    if (isEmpty())\n        return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Byte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

`scanReduceIndexed` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
ShortArray.scanReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n    if (isEmpty())\n        return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Short>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

`scanReduceIndexed` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
```

```
IntArray.scanReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Int>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}
```

`scanReduceIndexed` Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with the first element of this array.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.


```

Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n    var
sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun
FloatArray.sumBy(selector: (Float) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n
var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n
sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int
{\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n    var sum: Double = 0.0\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\npublic inline fun
ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector:
(Short) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n
    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each
element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n    var
sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n
 * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic
inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n    var sum: Double = 0.0\n    for
(element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n */\npublic inline fun
FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumByDouble(selector:
(Double) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) ->
Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n */\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n    var sum:
Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n *
Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNonNulls(): Array<T> {\n    for (element in this)
{\n        if (element == null) {\n            throw IllegalArgumentException("\nnull element found in $this.\n")\n        }\n
    }\n    @Suppress("\nUNCHECKED_CAST")\n    return this as Array<T>\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Array<out
T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n    val first = ArrayList<T>()\n    val second =
ArrayList<T>()\n    for (element in this) {\n        if (predicate(element)) {\n            first.add(element)\n        } else {\n

```

```

second.add(element)\n    }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair
of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n */\npublic inline fun ByteArray.partition(predicate: (Byte) ->
Boolean): Pair<List<Byte>, List<Byte>> {\n    val first = ArrayList<Byte>()\n    val second = ArrayList<Byte>()\n
for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    } else {\n
second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n */\npublic inline fun ShortArray.partition(predicate: (Short) ->
Boolean): Pair<List<Short>, List<Short>> {\n    val first = ArrayList<Short>()\n    val second =
ArrayList<Short>()\n    for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    }
else {\n        second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array
into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n */\npublic inline fun IntArray.partition(predicate: (Int) ->
Boolean): Pair<List<Int>, List<Int>> {\n    val first = ArrayList<Int>()\n    val second = ArrayList<Int>()\n
for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    } else {\n
second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of
lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains
elements for which [predicate] yielded `false`.\n */\npublic inline fun LongArray.partition(predicate: (Long) ->
Boolean): Pair<List<Long>, List<Long>> {\n    val first = ArrayList<Long>()\n    val second =
ArrayList<Long>()\n    for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    } else
{\n        second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n */\npublic inline fun FloatArray.partition(predicate: (Float)
-> Boolean): Pair<List<Float>, List<Float>> {\n    val first = ArrayList<Float>()\n    val second =
ArrayList<Float>()\n    for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    } else
{\n        second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into
pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n */\npublic inline fun DoubleArray.partition(predicate:
(Double) -> Boolean): Pair<List<Double>, List<Double>> {\n    val first = ArrayList<Double>()\n    val second =
ArrayList<Double>()\n    for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n    }
else {\n        second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array
into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list
contains elements for which [predicate] yielded `false`.\n */\npublic inline fun BooleanArray.partition(predicate:
(Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n    val first = ArrayList<Boolean>()\n    val second
= ArrayList<Boolean>()\n    for (element in this) {\n    if (predicate(element)) {\n        first.add(element)\n
    } else {\n        second.add(element)\n    }\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
*second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun
CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n    val first =
ArrayList<Char>()\n    val second = ArrayList<Char>()\n    for (element in this) {\n    if (predicate(element)) {\n
        first.add(element)\n    } else {\n        second.add(element)\n    }\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the
same index.\n * The returned list has length of the shortest collection.\n */\n @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of
the shortest collection.\n */\n @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n    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.
@sample
samples.collections.Iterables.Operations.zipIterable

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.
@sample
samples.collections.Iterables.Operations.zipIterable

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.
@sample
samples.collections.Iterables.Operations.zipIterable

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.
@sample
samples.collections.Iterables.Operations.zipIterable

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.
@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, 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.
@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> 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.
@sample
samples.collections.Iterables.Operations.zipIterable

public infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {
    return zip(other) { t1, t2 -> t1 to t2 }
}

Returns a list of values built from the elements of `this` array and the [other] array with the same index
using the provided [transform] function applied to each pair of elements.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {
    val size = minOf(size, other.size)
    val list = ArrayList<V>(size)
    for (i in 0 until size) {
        list.add(transform(this[i], other[i]))
    }
    return list
}

Returns a list of values built from the elements of `this` array and the [other] array with the same index
using the provided [transform] function applied to each pair of elements.
The returned list has length of the shortest collection.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> 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.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> 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.
@sample
samples.collections.Iterables.Operations.zipIterableWithTransform

public inline fun <R, V> 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\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n
val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n } \n return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\npublic inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of 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 * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <T, R> Array<out T>.zip(other:
Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of 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 * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R>
ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R> ShortArray.zip(other: Iterable<R>):
List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R>
IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R> LongArray.zip(other: Iterable<R>):
List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\npublic infix fun <R>

```

```

FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other:
Iterable<R>): List<Pair<Double, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
<R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>):
List<Pair<Char, R>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Array<out
T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n  val arraySize = size\n
val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in
other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n  val arraySize = size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> LongArray.zip(other: Iterable<R>, transform: (a: Long, b: R) -> V): List<V> {\n  val arraySize =
size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element
in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n  val arraySize = size\n  val list =

```

```

ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other) {\n
if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline
fun <R, V> DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n  val arraySize =
size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element
in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the
same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has
length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>
BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n  val arraySize = size\n  val
list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element in other)
{\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return list\n}\n\n/**\n *
Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *
using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic
inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n  val arraySize =
size\n  val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n  var i = 0\n  for (element
in other) {\n    if (i >= arraySize) break\n    list.add(transform(this[i++], element))\n  }\n  return
list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ByteArray.zip(other: ByteArray):
List<Pair<Byte, Byte>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray):
List<Pair<Int, Int>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n
* Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other: FloatArray):
List<Pair<Float, Float>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun
DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n  return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun BooleanArray.zip(other: BooleanArray):
List<Pair<Boolean, Boolean>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun

```



```

CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n  val size = minOf(size, other.size)\n  val list = ArrayList<V>(size)\n  for (i in 0 until size) {\n    list.add(transform(this[i], other[i]))\n  }\n  return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the

```


* 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 "...").

```

@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun ByteArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Byte) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun ShortArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Short) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun IntArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Int) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun LongArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Long) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun FloatArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Float) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun DoubleArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Double) -> CharSequence)? = null): String {
return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").
*/
@sample
samples.collections.Collections.Transformations.joinToString
*/
public fun
BooleanArray.joinToString(separator: CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((Boolean) -> CharSequence)? = null): String {
return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}
*/
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 "...").

@sample samples.collections.Collections.Transformations.joinToString

```

public fun CharArray.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\", postfix: CharSequence = "\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Char) -> CharSequence)? = null): String {
    return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

```

* Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.

```

public fun <T> Array<out T>.asIterable(): Iterable<T> {
    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 ByteArray.asIterable(): Iterable<Byte> {
    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 ShortArray.asIterable(): Iterable<Short> {
    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 IntArray.asIterable(): Iterable<Int> {
    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 LongArray.asIterable(): Iterable<Long> {
    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 FloatArray.asIterable(): Iterable<Float> {
    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 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 an [Iterable] 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.

@sample

```

samples.collections.Sequences.Building.sequenceFromArray
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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.

@sample samples.collections.Sequences.Building.sequenceFromArray

```

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.\n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n public fun
BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n * \n public
fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence {
this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfByte")\n * \n public fun Array<out Byte>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfShort")\n * \n public fun Array<out Short>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfInt")\n * \n public fun Array<out Int>.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfLong")\n * \n public fun Array<out Long>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfFloat")\n * \n public fun Array<out Float>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfDouble")\n * \n public fun Array<out Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * \n * \n public fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in
this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the array.\n * \n public fun ShortArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of
elements in the array.\n * \n public fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int =
0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else
sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n * \n public fun LongArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of
elements in the array.\n * \n public fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int
= 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN
else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n * \n public fun
DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the array.\n * \n * \n * \n @kotlin.jvm.JvmName("sumOfByte")\n * \n public fun Array<out
Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*\n * \n * \n * \n @kotlin.jvm.JvmName("sumOfShort")\n * \n public fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
array.\n * \n * \n * \n @kotlin.jvm.JvmName("sumOfInt")\n * \n public fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n
for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in
the array.\n * \n * \n * \n @kotlin.jvm.JvmName("sumOfLong")\n * \n public fun Array<out Long>.sum(): Long {\n var sum:

```

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Long = 0L\n for (element in this) {\n    sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of
all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Array<out Float>.sum(): Float
{\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n *
Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun Array<out
Double>.sum(): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += element\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n
var sum: Int = 0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns
the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n    var sum: Int = 0\n    for
(element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements
in the array.\n */\npublic fun IntArray.sum(): Int {\n    var sum: Int = 0\n    for (element in this) {\n       
sum += element\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic
fun LongArray.sum(): Long {\n    var sum: Long = 0L\n    for (element in this) {\n        sum += element\n    }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float
{\n    var sum: Float = 0.0f\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n/**\n
* Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n    var sum: Double
= 0.0\n    for (element in this) {\n        sum += element\n    }\n    return sum\n}\n\n"/>\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage
kotlin.ranges\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns a
random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws
IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun LongRange.random(): Long {\n    return random(Random)\n}\n\n/**\n * Returns a random element from
this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n    return
random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of
randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun IntRange.random(random: Random): Int {\n    try {\n        return
random.nextInt(this)\n    } catch (e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun LongRange.random(random: Random): Long {\n    try {\n        return
random.nextLong(this)\n    } catch (e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun CharRange.random(random: Random): Char {\n    try {\n        return
random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n    } catch (e: IllegalArgumentException) {\n        throw
NoSuchElementException(e.message)\n    }\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline
fun IntRange.randomOrNull(): Int? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this range, or `null` if this range is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
LongRange.randomOrNull(): Long? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element
from this range, or `null` if this range is empty.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun

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CharRange.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n

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*\/n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun IntRange.randomOrNull(random: Random): Int?
{\n if (isEmpty())\n return null\n return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n
*\/n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun LongRange.randomOrNull(random: Random):
Long? {\n if (isEmpty())\n return null\n return random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n
*\/n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun CharRange.randomOrNull(random: Random):
Char? {\n if (isEmpty())\n return null\n return random.nextInt(first.toInt(), last.toInt() +
1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun
IntRange.contains(element: Int?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element:
Long?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*\/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element:
Char?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Byte): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Byte): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator
fun ClosedRange<Short>.contains(value: Byte): Boolean {\n return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Byte): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Byte): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun ClosedRange<Int>.contains(value:
Double): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Double): Boolean {\n return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Double): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\/n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun

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ClosedRange<Short>.contains(value: Double): Boolean {\n  return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun ClosedRange<Float>.contains(value:
Double): Boolean {\n  return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n *\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous
semantics and is going to be removed.")\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Float): Boolean {\n  return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Float): Boolean {\n  return value.toLongExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Float): Boolean {\n  return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n  return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun ClosedRange<Double>.contains(value:
Float): Boolean {\n  return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n *\n@kotlin.jvm.JvmName("longRangeContains")\npublic operator fun
ClosedRange<Long>.contains(value: Int): Boolean {\n  return contains(value.toLong())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun
ClosedRange<Byte>.contains(value: Int): Boolean {\n  return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun ClosedRange<Short>.contains(value: Int):
Boolean {\n  return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if
the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Int): Boolean {\n  return contains(value.toDouble())\n}\n\n/**\n * Checks
if the specified [value] belongs to this range.\n *\n@Deprecated("This `contains` operation mixing integer and
floating point arguments has ambiguous semantics and is going to be
removed.")\n@kotlin.jvm.JvmName("floatRangeContains")\npublic operator fun
ClosedRange<Float>.contains(value: Int): Boolean {\n  return contains(value.toFloat())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("intRangeContains")\npublic operator fun
ClosedRange<Int>.contains(value: Long): Boolean {\n  return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@kotlin.jvm.JvmName("byteRangeContains")\npublic operator fun ClosedRange<Byte>.contains(value:
Long): Boolean {\n  return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n *\n@kotlin.jvm.JvmName("shortRangeContains")\npublic
operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n  return value.toShortExactOrNull().let { if
(it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*\n@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.")\n@kotlin.jvm.JvmName("doubleRangeContains")\npublic operator fun
ClosedRange<Double>.contains(value: Long): Boolean {\n  return contains(value.toDouble())\n}\n\n/**\n *

```

Checks if the specified [value] belongs to this range.
`@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")`
`@kotlin.jvm.JvmName("floatRangeContains")`
`public operator fun ClosedRange<Float>.contains(value: Long): Boolean` {
 return contains(value.toFloat())
}
* Checks if the specified [value] belongs to this range.
`@kotlin.jvm.JvmName("intRangeContains")`
`public operator fun ClosedRange<Int>.contains(value: Short): Boolean` {
 return contains(value.toInt())
}
* Checks if the specified [value] belongs to this range.
`@kotlin.jvm.JvmName("longRangeContains")`
`public operator fun ClosedRange<Long>.contains(value: Short): Boolean` {
 return contains(value.toLong())
}
* Checks if the specified [value] belongs to this range.
`@kotlin.jvm.JvmName("byteRangeContains")`
`public operator fun ClosedRange<Byte>.contains(value: Short): Boolean` {
 return value.toByteExactOrNull().let { if (it != null) contains(it) else false }
}
* Checks if the specified [value] belongs to this range.
`@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")`
`@kotlin.jvm.JvmName("doubleRangeContains")`
`public operator fun ClosedRange<Double>.contains(value: Short): Boolean` {
 return contains(value.toDouble())
}
Checks if the specified [value] belongs to this range.
`@Deprecated("This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.")`
`@kotlin.jvm.JvmName("floatRangeContains")`
`public operator fun 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.
* The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Int.downTo(to: Byte): 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.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Long.downTo(to: Byte): 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.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Byte.downTo(to: Byte): 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.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Short.downTo(to: Byte): 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.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Char.downTo(to: Char): CharProgression` {
 return CharProgression.fromClosedRange(this, to, -1)
}
* Returns a progression from this value down to the specified [to] value with the step -1.
* The [to] value should be less than or equal to `this` value.
* If the [to] value is greater than `this` value the returned progression is empty.
`public 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.
* If the [to] value is greater than `this` value the returned progression is empty.
`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.
* If the [to] value is greater than `this` value the returned progression is empty.
`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.
* If the [to] value is greater than `this` value the returned progression is empty.
`public infix fun Short.downTo(to: Int): IntProgression` {
 return

```

IntProgression.fromClosedRange(this.toInt(), to, -1)\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Long):
LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\npublic infix fun Long.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this,
to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n
* The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long): LongProgression {\n    return
LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
* If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun
Short.downTo(to: Long): LongProgression {\n    return LongProgression.fromClosedRange(this.toLong(), to, -
1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n *
The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the
returned progression is empty.\n */\npublic infix fun Int.downTo(to: Short): IntProgression {\n    return
IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the
specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to]
value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Short):
LongProgression {\n    return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a
progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less
than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\npublic infix fun Byte.downTo(to: Short): IntProgression {\n    return
IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value
down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n
* If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun
Short.downTo(to: Short): IntProgression {\n    return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -
1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n
*/\npublic fun IntProgression.reversed(): IntProgression {\n    return IntProgression.fromClosedRange(last, first, -
step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same
step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n    return
LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same
range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n
    return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the
same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n
    checkStepIsPositive(step > 0, step)\n    return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -
step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun
LongProgression.step(step: Long): LongProgression {\n    checkStepIsPositive(step > 0, step)\n    return
LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression
that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int):
CharProgression {\n    checkStepIsPositive(step > 0, step)\n    return CharProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun
Long.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun
Short.toByteExactOrNull(): Byte? {\n    return if (this in
Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun

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Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Byte.until(to: Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Short.until(to: Long): LongRange { \n if (to <= Long.MIN_VALUE) return LongRange.EMPTY \n return this.toLong() .. (to - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Int.until(to: Short): IntRange { \n return this .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Long.until(to: Short): LongRange { \n return this .. (to.toLong() - 1).toLong()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Byte.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Returns a range from this value up to but excluding the specified [to] value. \n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty. \n */ \n public infix fun Short.until(to: Short): IntRange { \n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastComparable \n */ \n public fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Byte.coerceAtLeast(minimumValue: Byte): Byte { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Short.coerceAtLeast(minimumValue: Short): Short { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Int.coerceAtLeast(minimumValue: Int): Int { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Long.coerceAtLeast(minimumValue: Long): Long { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Float.coerceAtLeast(minimumValue: Float): Float { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not less than the specified [minimumValue]. \n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast \n */ \n public fun Double.coerceAtLeast(minimumValue: Double): Double { \n return if (this < minimumValue) minimumValue else this\n}\n\n/** \n * Ensures that this value is not greater than the specified [maximumValue]. \n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise. \n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable \n */ \n public fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T { \n return if (this > maximumValue) maximumValue else this\n}\n\n/** \n * Ensures that this value is not greater than the specified [maximumValue]. \n * \n * @return this value if it's less

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than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short):
Short {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int
{\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater
than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or
the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n
*/\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n    return if (this > maximumValue)
maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n *
\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n *
\n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun
Float.coerceAtMost(maximumValue: Float): Float {\n    return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue:
Double): Double {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun
<T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n    if (minimumValue !== null
&& maximumValue !== null) {\n        if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n        if (this < minimumValue) return minimumValue\n        if (this >
maximumValue) return maximumValue\n    }\n    else {\n        if (minimumValue !== null && this <
minimumValue) return minimumValue\n        if (maximumValue !== null && this > maximumValue) return
maximumValue\n    }\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte,
maximumValue: Byte): Byte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short,
maximumValue: Short): Short {\n    if (minimumValue > maximumValue) throw
IllegalArgumentOutOfRangeException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample

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samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Int.coerceIn(minimumValue: Int, maximumValue:
Int): Int {\n  if (minimumValue > maximumValue) throw IllegalArgumentException("\n\nCannot coerce value to an
empty range: maximum $maximumValue is less than minimum $minimumValue.\n")\n  if (this < minimumValue)
return minimumValue\n  if (this > maximumValue) return maximumValue\n  return this\n}\n\n/**\n * Ensures
that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in
the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater
than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun
Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n  if (minimumValue > maximumValue)
throw IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Float.coerceIn(minimumValue: Float,
maximumValue: Float): Float {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *^\npublic fun Double.coerceIn(minimumValue: Double,
maximumValue: Double): Double {\n  if (minimumValue > maximumValue) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.\n")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample
samples.comparisons.ComparableOps.coerceInFloatingPointRange\n *^\n@SinceKotlin("1.1")\n\npublic fun <T :
Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n  if (range.isEmpty()) throw
IllegalArgumentException("\n\nCannot coerce value to an empty range: $range.\n")\n  return when {\n    // this <
start equiv to this <= start && !(this >= start)\n    range.lessThanOrEqualTo(this, range.start) &&
!range.lessThanOrEqualTo(range.start, this) -> range.start\n    // this > end equiv to this >= end && !(this <= end)\n
range.lessThanOrEqualTo(range.endInclusive, this) && !range.lessThanOrEqualTo(this, range.endInclusive) ->
range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *^\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n  if (range is ClosedFloatingPointRange) {\n    return
this.coerceIn<T>(range)\n  }\n  if (range.isEmpty()) throw IllegalArgumentException("\n\nCannot coerce value to an
empty range: $range.\n")\n  return when {\n    this < range.start -> range.start\n    this > range.endInclusive ->
range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`. \n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n
*^\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n  if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<Int>(range)\n  }\n  if (range.isEmpty()) throw IllegalArgumentException("\n\nCannot coerce
value to an empty range: $range.\n")\n  return when {\n    this < range.start -> range.start\n    this >
range.endInclusive -> range.endInclusive\n    else -> this\n  }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than

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/** Multiplies this value by the other value. */
@kotlin.internal.InlineOnly
public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)
/** 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)
/** 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)
/** 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].
*
* If this value is less than or
equals to [Byte.MAX_VALUE], the resulting `Byte` value represents
* the same numerical value as this
`UByte`. Otherwise the result is negative.
*
* The resulting `Byte` value has the same binary representation
as this `UByte` value.
*/
@kotlin.internal.InlineOnly
public inline fun toByte(): Byte = data
/**
* Converts this [UByte] value to [Short].
*
* The resulting `Short` value represents the same numerical
value as this `UByte`.
*
* The least significant 8 bits of the resulting `Short` value are the same as the bits
of this `UByte` value,
* whereas the most significant 8 bits are filled with zeros.
*/
@kotlin.internal.InlineOnly
public inline fun toShort(): Short = data.toShort() and 0xFF
/**
* Converts
this [UByte] value to [Int].
*
* The resulting `Int` value represents the same numerical value as this
`UByte`.
*
* The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte`
value,
* whereas the most significant 24 bits are filled with zeros.
*/
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data.toInt() and 0xFF
/**
* Converts this [UByte] value to [Long].
*
*
* 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` value,
* whereas the most significant
56 bits are filled with zeros.
*/
@kotlin.internal.InlineOnly
public inline fun toLong(): Long =
data.toLong() and 0xFF
/** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun
toUByte(): UByte = this
/**
* Converts this [UByte] value to [UShort].
*
* 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` value,
* whereas the most significant 8 bits are filled
with zeros.
*/
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = UShort(data.toShort()
and 0xFF)
/**
* Converts this [UByte] value to [UInt].
*
* 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` value,
* whereas the most significant 24 bits are filled with zeros.
*/

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@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**\n *
Converts this [UByte] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical
value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits
of this `UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n
* Converts this [UByte] value to [Float].\n *\n * The resulting `Float` value represents the same numerical
value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float =
this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n *\n * The resulting `Double`
value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline
fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String =
toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n * If this value is positive, the resulting
`UByte` value represents the same numerical value as this `Byte`.\n *\n * The resulting `UByte` value has the same
binary representation as this `Byte` value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n *\n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Short`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of
this `Short` value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value is
positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same
numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this
`Int` value.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If
this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n *
the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the least significant 8
bits of this `Long` value.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toUByte(): UByte = UByte(this.toByte())\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@
SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class UInt @PublishedApi internal
constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\n\n companion object {\n\n /**\n
* A constant holding the minimum value an instance of UInt can have.\n */\n public const val
MIN_VALUE: UInt = UInt(0)\n\n /**\n
* A constant holding the maximum value an instance of UInt can
have.\n */\n public const val MAX_VALUE: UInt = UInt(-1)\n\n /**\n
* The number of bytes
used to represent an instance of UInt in a binary form.\n */\n public const val SIZE_BYTES: Int = 4\n\n
/**\n
* The number of bits used to represent an instance of UInt in a binary form.\n */\n public const
val SIZE_BITS: Int = 32\n }\n\n /**\n
* Compares this value with the specified value for order.\n * Returns
zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive
number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n /**\n
* Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n
*
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n

```

```

@kotlin.internal.InlineOnly\n  @Suppress(\"OVERRIDE_BY_INLINE\")\n  public override inline operator fun
compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n  /**\n   * Compares this value with the
specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n   * or a positive number if it's greater than other.\n   */\n  @kotlin.internal.InlineOnly\n  public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n  /** Adds the
other value to this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun plus(other: UByte): UInt =
this.plus(other.toUInt())\n\n  /** Adds the other value to this value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n\n  /** Adds the other value to this value.
*/\n  @kotlin.internal.InlineOnly\n  public inline operator fun plus(other: UInt): UInt =
UInt(this.data.plus(other.data))\n\n  /** Adds the other value to this value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n  /** Subtracts the other
value from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: UByte): UInt =
this.minus(other.toUInt())\n\n  /** Subtracts the other value from this value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n\n  /** Subtracts the other value
from this value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n\n  /** Subtracts the other value from this value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n  /** Multiplies this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n\n  /** Multiplies this value by the
other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: UShort): UInt =
this.times(other.toUInt())\n\n  /** Multiplies this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n\n  /** Multiplies this value
by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n  /** Divides this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n\n  /** Divides this value by the other
value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: UShort): UInt =
this.div(other.toUInt())\n\n  /** Divides this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun div(other: UInt): UInt = uintDivide(this, other)\n\n  /** Divides this value by the other value. */\n
  @kotlin.internal.InlineOnly\n  public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n  /** Calculates the remainder of dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n\n  /** Calculates the remainder of
dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public
inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n\n  /** Calculates the remainder of dividing
this value by the other value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rem(other: UInt): UInt
= uintRemainder(this, other)\n\n  /** Calculates the remainder of dividing this value by the other value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun rem(other: ULong): ULong =
this.toULong().rem(other)\n\n  /** Increments this value. */\n  @kotlin.internal.InlineOnly\n  public inline
operator fun inc(): UInt = UInt(data.inc())\n\n  /** Decrements this value. */\n  @kotlin.internal.InlineOnly\n
public inline operator fun dec(): UInt = UInt(data.dec())\n\n  /** Creates a range from this value to the specified
[other] value. */\n  @kotlin.internal.InlineOnly\n  public inline operator fun rangeTo(other: UInt): UIntRange =
UIntRange(this, other)\n\n  /** Shifts this value left by the [bitCount] number of bits. */\n  @kotlin.internal.InlineOnly\n
public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n\n  /** Shifts this value right by the
[bitCount] number of bits, filling the leftmost bits with zeros. */\n  @kotlin.internal.InlineOnly\n  public inline
infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n  /** Performs a bitwise AND operation between the two
values. */\n  @kotlin.internal.InlineOnly\n  public inline infix
fun and(other: UInt): UInt = UInt(this.data and other.data)\n\n  /** Performs a bitwise OR operation between the two
values. */\n  @kotlin.internal.InlineOnly\n  public inline infix
fun or(other: UInt): UInt = UInt(this.data or
other.data)\n\n  /** Performs a bitwise XOR operation between the two values. */\n  @kotlin.internal.InlineOnly\n

```



```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Int.toUInt(): UInt = UInt(this)^/**^ * Converts this [Long] value to [UInt].^ * If this value is positive and less
than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents^ * the same numerical value as this
`Long`.^ * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Long.toUInt(): UInt = UInt(this.toInt())^/**^ * Converts this [Float] value to [UInt].^ * The fractional part,
if any, is rounded down towards zero.^ * Returns zero if this `Float` value is negative or `NaN`,
[UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Float.toUInt(): UInt = doubleToUInt(this.toDouble())^/**^ * Converts this [Double] value to [UInt].^ * The
fractional part, if any, is rounded down towards zero.^ * Returns zero if this `Double` value is negative or `NaN`,
[UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.^
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
Double.toUInt(): UInt = doubleToUInt(this)^/**^ * 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.^ *^@n// Auto-generated file. DO NOT EDIT!^@n^package kotlin.^@nimport
kotlin.experimental.^@n^@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")^@
SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public inline class UShort @PublishedApi internal
constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {^@n^    companion object {^@n^        /**^
^ * A constant holding the minimum value an instance of UShort can have.^ *^@n^        public const val
MIN_VALUE: UShort = UShort(0)^@n^        /**^@n^        * A constant holding the maximum value an instance of
UShort can have.^@n^        public const val MAX_VALUE: UShort = UShort(-1)^@n^        /**^@n^        * The
number of bytes used to represent an instance of UShort in a binary form.^@n^        public const val
SIZE_BYTES: Int = 2^@n^        /**^@n^        * The number of bits used to represent an instance of UShort in a binary
form.^@n^        public const val SIZE_BITS: Int = 16^@n^    }^@n^    /**^@n^    * Compares this value with the
specified value for order.^@n^    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,^@n^    * or a positive number if it's greater than other.^@n^    @kotlin.internal.InlineOnly^
public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())^@n^    /**^@n^    *
Compares this value with the specified value for order.^@n^    * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,^@n^    * or a positive number if it's greater than other.^@n^    @^
@kotlin.internal.InlineOnly^@n^    @Suppress("OVERRIDE_BY_INLINE")^@n^    public override inline operator fun
compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())^@n^    /**^@n^    * Compares this value with the
specified value for order.^@n^    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,^@n^    * or a positive number if it's greater than other.^@n^    @kotlin.internal.InlineOnly^
public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)^@n^    /**^@n^    * Compares
this value with the specified value for order.^@n^    * Returns zero if this value is equal to the specified other value,
a negative number if it's less than other,^@n^    * or a positive number if it's greater than other.^@n^    @^
@kotlin.internal.InlineOnly^    public inline operator fun compareTo(other: ULong): Int =
this.toULong().compareTo(other)^@n^    /**^@n^    * Adds the other value to this value.^@n^    @kotlin.internal.InlineOnly^
public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())^@n^    /**^@n^    * Adds the other value
to this value.^@n^    @kotlin.internal.InlineOnly^    public inline operator fun plus(other: UShort): UInt =
this.toUInt().plus(other.toUInt())^@n^    /**^@n^    * Adds the other value to this value.^@n^    @kotlin.internal.InlineOnly^
public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)^@n^    /**^@n^    * Adds the other value to this
value.^@n^    @kotlin.internal.InlineOnly^    public inline operator fun plus(other: ULong): ULong =
this.toULong().plus(other)^@n^    /**^@n^    * Subtracts the other value from this value.^@n^    @kotlin.internal.InlineOnly^
public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())^@n^    /**^@n^    * Subtracts the
other value from this value.^@n^    @kotlin.internal.InlineOnly^    public inline operator fun minus(other: UShort):
UInt = this.toUInt().minus(other.toUInt())^@n^    /**^@n^    * Subtracts the other value from this value.^@n

```

```

@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n
/** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.toUInt().div(other.toUInt())\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n\n /** Divides this value by
the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of
dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other:
UByte): UInt = this.toUInt().rem(other.toUInt())\n\n /** Calculates the remainder of dividing this value by the other
value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt =
this.toUInt().rem(other.toUInt())\n\n /** Calculates the remainder of dividing this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n\n /**
Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n\n /** Decrements
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n
/** Creates a range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline
operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a
bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun
and(other: UShort): UShort = UShort(this.data and other.data)\n\n /** Performs a bitwise OR operation between the
two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort =
UShort(this.data or other.data)\n\n /** Performs a bitwise XOR operation between the two values. */\n
@kotlin.internal.InlineOnly\n public inline infix fun xor(other: UShort): UShort = UShort(this.data xor
other.data)\n\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public inline fun inv():
UShort = UShort(data.inv())\n\n /**\n * Converts this [UShort] value to [Byte].\n * If this value is less
than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same numerical value as this
`UShort`.\n * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort`
value.\n * Note that the resulting `Byte` value may be negative.\n */\n @kotlin.internal.InlineOnly\n public
inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [UShort] value to [Short].\n * If this
value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n * the same
numerical value as this `UShort`. Otherwise the result is negative.\n * The resulting `Short` value has the
same binary representation as this `UShort` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toShort(): Short = data\n\n /**\n * Converts this [UShort] value to [Int].\n * The resulting `Int` value
represents the same numerical value as this `UShort`.\n * The least significant 16 bits of the resulting `Int`
value are the same as the bits of this `UShort` value,\n * whereas the most significant 16 bits are filled with
zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFFFF\n\n /**\n *
Converts this [UShort] value to [Long].\n * The resulting `Long` value represents the same numerical
value as this `UShort`.\n * The least significant 16 bits of the resulting `Long` value are the same as the bits
of this `UShort` value,\n * whereas the most significant 48 bits are filled with zeros.\n */

```

```

@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n /**\n *
Converts this [UShort] value to [UByte].\n *\n * If this value is less than or equals to [UByte.MAX_VALUE],
the resulting `UByte` value represents\n * the same numerical value as this `UShort`.\n *\n * The resulting
`UByte` value is represented by the least significant 8 bits of this `UShort` value.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = data.toUByte()\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n /**\n * Converts this [UShort]
value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\n
*\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n
* whereas the most significant 16 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline
fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n /**\n * Converts this [UShort] value to [ULong].\n *\n
* The resulting `ULong` value represents the same numerical value as this `UShort`.\n *\n * The least
significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n * whereas the
most significant 48 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toULong():
ULong = ULong(data.toLong() and 0xFFFF)\n /**\n * Converts this [UShort] value to [Float].\n *\n *
The resulting `Float` value represents the same numerical value as this `UShort`.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this
[UShort] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this
`UShort`.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toDouble(): Double =
this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n /**\n * Converts this
[Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to [UShort].\n *\n * If this
value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n *\n * The
resulting `UShort` value has the same binary representation as this `Short` value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n *\n * If this value is
positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same
numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of
this `Int` value.\n */\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to [UShort].\n *\n * If
this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n *
the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by the least significant
16 bits of this `Long` value.\n
*/\n
@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
Long.toUShort(): UShort = UShort(this.toShort())\n",*/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\n\npublic class CharRange(start: Char, endInclusive:
Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n\n    override val start: Char get() = first\n
    override val endInclusive: Char get() = last\n\n    override fun contains(value: Char): Boolean = first <= value &&
value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean
= \n        other is CharRange && (isEmpty() && other.isEmpty()) ||\n        first == other.first && last ==
other.last\n\n    override fun hashCode(): Int = \n        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n
    override fun toString(): String = "$first..$last"\n\n    companion object {\n\n        /** An empty range of values of
type Char. */\n        public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n    }\n}\n\n/**\n * A
range of values of type `Int`.\n */\n\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start,

```

```

endInclusive, 1), ClosedRange<Int> {\n  override val start: Int get() = first\n  override val endInclusive: Int get() =
last\n\n  override fun contains(value: Int): Boolean = first <= value && value <= last\n\n  override fun isEmpty():
Boolean = first > last\n\n  override fun equals(other: Any?): Boolean =\n    other is IntRange && (isEmpty() &&
other.isEmpty()) ||\n    first == other.first && last == other.last\n\n  override fun hashCode(): Int =\n    if
(isEmpty()) -1 else (31 * first + last)\n\n  override fun toString(): String = \"$first..$last\"\n\n  companion object
{\n    /** An empty range of values of type Int. */\n    public val EMPTY: IntRange = IntRange(1, 0)\n  }\n}\n\n/** A range of values of type `Long`. */\npublic class LongRange(start: Long, endInclusive: Long) :
LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n  override val start: Long get() = first\n  override
val endInclusive: Long get() = last\n\n  override fun contains(value: Long): Boolean = first <= value && value <=
last\n\n  override fun isEmpty(): Boolean = first > last\n\n  override fun equals(other: Any?): Boolean =\n    other is LongRange && (isEmpty() && other.isEmpty()) ||\n    first == other.first && last == other.last\n\n  override fun hashCode(): Int =\n    if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr
32))).toInt()\n\n  override fun toString(): String = \"$first..$last\"\n\n  companion object {\n    /** An empty
range of values of type Long. */\n    public val EMPTY: LongRange = LongRange(1, 0)\n  }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:UseExperimental(
kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport
kotlin.contracts.*\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n  override fun hasNext(): Boolean =
false\n  override fun hasPrevious(): Boolean = false\n  override fun nextIndex(): Int = 0\n  override fun
previousIndex(): Int = -1\n  override fun next(): Nothing = throw NoSuchElementException()\n  override fun
previous(): Nothing = throw NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>,
Serializable, RandomAccess {\n  private const val serialVersionUID: Long = -7390468764508069838L\n\n  override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n  override fun hashCode(): Int
= 1\n  override fun toString(): String = "[]"\n\n  override val size: Int get() = 0\n  override fun isEmpty():
Boolean = true\n  override fun contains(element: Nothing): Boolean = false\n  override fun containsAll(elements:
Collection<Nothing>): Boolean = elements.isEmpty()\n\n  override fun get(index: Int): Nothing = throw
IndexOutOfBoundsException("Empty list doesn't contain element at index $index.")\n  override fun
indexOf(element: Nothing): Int = -1\n  override fun lastIndexOf(element: Nothing): Int = -1\n\n  override fun
iterator(): Iterator<Nothing> = EmptyIterator\n  override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n
  override fun listIterator(index: Int): ListIterator<Nothing> {\n    if (index != 0) throw
IndexOutOfBoundsException("Index: $index")\n    return EmptyIterator\n  }\n\n  override fun
subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n    if (fromIndex == 0 && toIndex == 0) return this\n
throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex")\n  }\n\n  private fun
readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> =
ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val
isVarargs: Boolean) : Collection<T> {\n  override val size: Int get() = values.size\n  override fun isEmpty():
Boolean = values.isEmpty()\n  override fun contains(element: T): Boolean = values.contains(element)\n  override
fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n  override fun iterator():
Iterator<T> = values.iterator()\n  // override hidden toArray implementation to prevent copying of values array\n
public fun toArray(): Array<out Any?> = values.copyOfToArrayOfAny(isVarargs)\n}\n\n"/*\n * Returns an empty
read-only list. The returned list is serializable (JVM).\n * @sample
samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T> emptyList(): List<T> =
EmptyList\n\n"/*\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\n *
@sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T> listOf(vararg elements: T):
List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n"/*\n * Returns an empty read-only list. The
returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n"/*\n * Returns an empty

```



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new [MutableList].\n * @sample samples.collections.Collections.Lists.emptyMutableList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> =
ArrayList()\n\n**\n * Returns an empty new [ArrayList].\n * @sample
samples.collections.Collections.Lists.emptyArrayList\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> =
ArrayList()\n\n**\n * Returns a new [MutableList] with the given elements.\n * @sample
samples.collections.Collections.Lists.mutableList\n *\npublic fun <T> mutableListOf(vararg elements: T):
MutableList<T> =\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs =
true))\n\n**\n * Returns a new [ArrayList] with the given elements.\n * @sample
samples.collections.Collections.Lists.arrayList\n *\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T>
=\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n**\n *
Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The
returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n *\npublic fun
<T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n**\n *
Returns a new read-only list only of those given elements, that are not null. The returned list is serializable
(JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n *\npublic fun <T : Any>
listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n**\n * Creates a new read-only list with
the specified [size], where each element is calculated by calling the specified\n * [init] function.\n * \n * The
function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for
a list element given its index.\n * \n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
List<T> = MutableList(size, init)\n\n**\n * Creates a new mutable list with the specified [size], where each element
is calculated by calling the specified\n * [init] function.\n * \n * The function [init] is called for each list element
sequentially starting from the first one.\n * It should return the value for a list element given its index.\n * \n *
@sample samples.collections.Collections.Lists.mutableListFromInitializer\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index:
Int) -> T): MutableList<T> {\n    val list = ArrayList<T>(size)\n    repeat(size) { index -> list.add(init(index)) }\n
return list\n}\n\n**\n * Builds a new read-only [List] by populating a [MutableList] using the given
[builderAction]\n * and returning a read-only list with the same elements.\n * \n * The list passed as a receiver to the
[builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified
behavior.\n * \n * @sample samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildList(@BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n    contract {\n        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)\n    }\n    return
ArrayList<E>().apply(builderAction)\n}\n\n**\n * Builds a new read-only [List] by populating a [MutableList]
using the given [builderAction]\n * and returning a read-only list with the same elements.\n * \n * The list passed as
a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
unspecified behavior.\n * \n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n * \n * @throws IllegalArgumentException if the given [capacity] is negative.\n * \n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n    contract {\n        callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)\n    }\n    checkBuilderCapacity(capacity)\n    return
ArrayList<E>(capacity).apply(builderAction)\n}\n\n**\n * Returns an [IntRange] of the valid indices for this
collection.\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n *\npublic val
Collection<*>.indices: IntRange\n    get() = 0..size - 1\n\n**\n * Returns the index of the last item in the list or -1 if
the list is empty.\n * \n * @sample samples.collections.Collections.Lists.lastIndexOfList\n *\npublic val <T>
List<T>.lastIndex: Int\n    get() = this.size - 1\n\n**\n * Returns `true` if the collection is not empty.\n * @sample

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samples.collections.Collections.Collections.collectionIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Collection<T>.isEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is
either null or empty.\n * @sample samples.collections.Collections.Collections.collectionOrNull\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isEmpty():
Boolean {\n    contract {\n        returns(false) implies (this@isEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample
samples.collections.Collections.Collections.collectionOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and
the empty list otherwise.\n * @sample samples.collections.Collections.Collections.listOrNull\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is
empty.\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.isEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n    if (isEmpty()) defaultValue() else this\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n * @sample
samples.collections.Collections.Collections.collectionContainsAll\n
*/\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\ninternal fun <T>
List<T>.optimizeReadOnlyList() = when (size) {\n    0 -> emptyList()\n    1 -> listOf(this[0])\n    else ->
this\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The
list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n *
otherwise the result is undefined.\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\n * If the list contains multiple elements equal to the specified [element], there
is no guarantee which one will be found.\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\n * `null` value is considered to be less than any non-null value.\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted
insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be
inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\npublic fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n    rangeCheck(size, fromIndex,
toIndex)\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <= high) {\n        val mid = (low +
high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp = compareValues(midVal,
element)\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range
for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending
order according to the specified [comparator],\n * otherwise the result is undefined.\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\n * `null` value is considered to be less than any non-null value.\n * @return the index of the element, if it is contained in
the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The
insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified
subrange of list) still remains sorted according to the specified [comparator].\n * @sample
samples.collections.Collections.Collections.binarySearch\n
*/\npublic fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n   
rangeCheck(size, fromIndex, toIndex)\n    var low = fromIndex\n    var high = toIndex - 1\n    while (low <=
high) {\n        val mid = (low + high).ushr(1) // safe from overflows\n        val midVal = get(mid)\n        val cmp =
comparator.compare(midVal, element)\n        if (cmp < 0)\n            low = mid + 1\n        else if (cmp > 0)\n            high = mid - 1\n        else\n            return mid // key found\n    }\n    return -(low + 1) // key not found\n}\n\n/**\n

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Searches this list or its range for an element having the key returned by the specified [selector] function
 * equal to the provided [key] value using the binary search algorithm.
 * 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 with 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 with the specified [key], if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample
 samples.collections.Collections.Lists.binarySearchByKey
 *
 public inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) -> K?)\n: Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,\n fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n// binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\n\n\n**
 * Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.
 * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,
 * i.e. negative values come before zero and zeroes come before positive values.
 * Otherwise, the result is undefined.
 * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.
 * @param comparison function that returns zero when called on the list element being searched.
 * On the elements coming before the target element, the function must return negative values;
 * on the elements coming after the target element, the function must return positive values.
 * @return the index of the found element, if it is contained in the list within the specified range;
 * otherwise, the inverted insertion point `(-insertion point - 1)`.
 * The insertion point is defined as the index at which the element should be inserted,
 * so that the list (or the specified subrange of list) still remains sorted.
 * @sample
 samples.collections.Collections.Lists.binarySearchWithComparisonFunction
 *
 public fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n rangeCheck(size, fromIndex, toIndex)\n var low = fromIndex\n var high = toIndex - 1\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparison(midVal)\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n**
 * Checks that `from` and `to` are in the range of [0..size] and throws an appropriate exception, if they aren't.
 *
 private fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\n when {\n fromIndex > toIndex -> throw IllegalArgumentException("fromIndex (\$fromIndex) is greater than toIndex (\$toIndex).")\n fromIndex < 0 -> throw IndexOutOfBoundsException("fromIndex (\$fromIndex) is less than zero.")\n toIndex > size -> throw IndexOutOfBoundsException("toIndex (\$toIndex) is greater than size (\$size).")\n }\n}\n\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkIndexOverflow(index: Int): Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal expect fun checkCountOverflow(count: Int): Int\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwIndexOverflow() { throw ArithmeticException("Index overflow has happened.") }\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") }\n\n"/**
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 *
 *
 @file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n@file:UseExperimental(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n private const val serialVersionUID: Long = 8246714829545688274\n override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\n override fun hashCode(): Int = 0\n override fun toString(): String = "{}"\n\n override val size: Int get() = 0\n override fun isEmpty(): Boolean = true\n\n override fun containsKey(key:

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Any?): Boolean = false\n    override fun containsValue(value: Nothing): Boolean = false\n    override fun get(key:
Any?): Nothing? = null\n    override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n    override
val keys: Set<Any?> get() = EmptySet\n    override val values: Collection<Nothing> get() = EmptyList\n\n    private
fun readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n * \n * The
returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n
*/\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress("UNCHECKED_CAST") (EmptyMap as Map<K,
V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first
value is the key and the second is the value.\n * \n * If multiple pairs have the same key, the resulting map will
contain the value from the last of those pairs.\n * \n * Entries of the map are iterated in the order they were
specified.\n * \n * The returned map is serializable (JVM).\n * \n * @sample
samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>):
Map<K, V> =\n    if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else
emptyMap()\n\n/**\n * Returns an empty read-only map.\n * \n * The returned map is serializable (JVM).\n *
@sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n * \n *
The returned map preserves the entry iteration order.\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf():
MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given
as a list of pairs\n * where the first component is the key and the second is the value.\n * \n * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.\n * \n * Entries of the map are
iterated in the order they were specified.\n * \n * @sample
samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n */\npublic fun <K, V> mutableMapOf(vararg pairs:
Pair<K, V>): MutableMap<K, V> =\n    LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs)
}\n\n/**\n * Returns an empty new [HashMap].\n * \n * @sample
samples.collections.Maps.Instantiation.emptyHashMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V>
= HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n *
where the first component is the key and the second is the value.\n * \n * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs:
Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n *
Returns an empty new [LinkedHashMap].\n * \n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline
fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new
[LinkedHashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and
the second is the value.\n * \n * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n * \n * Entries of the map are iterated in the order they were specified.\n * \n * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs:
Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds
a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only
map with the same key-value pairs.\n * \n * The map passed as a receiver to the [builderAction] is valid only inside
that function.\n * Using it outside of the function produces an unspecified behavior.\n * \n * Entries of the map are
iterated in the order they were added by the [builderAction].\n * \n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*/\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n    contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return LinkedHashMap<K,
V>().apply(builderAction)\n}\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the

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given [builderAction] and returning a read-only map with the same key-value pairs. The map passed as a receiver to the [builderAction] is valid only inside that function. Using it outside of the function produces an unspecified behavior. [capacity] is used to hint the expected number of pairs added in the [builderAction]. Entries of the map are iterated in the order they were added by the [builderAction]. @throws IllegalArgumentException if the given [capacity] is negative. @sample

```

samples.collections.Builders.Maps.buildMapSample

*\/@SinceKotlin("1.3")\/@ExperimentalStdlibApi\/@kotlin.internal.InlineOnly\/npublic inline fun <K, V>
buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }n  checkBuilderCapacity(capacity)n
return LinkedHashMap<K, V>(mapCapacity(capacity)).apply(builderAction)n}n\/n\/**n * Calculate the initial
capacity of a map.n *\/@PublishedApi\/ninternal expect fun mapCapacity(expectedSize: Int): Int\/n\/**n *
Checks a collection builder function capacity argument.n
*\/@SinceKotlin("1.3")\/@ExperimentalStdlibApi\/@PublishedApi\/ninternal expect fun
checkBuilderCapacity(capacity: Int)\/n\/** Returns `true` if this map is not empty.
*\/@kotlin.internal.InlineOnly\/npublic inline fun <K, V> Map<out K, V>.isEmpty(): Boolean =
!isEmpty()\/n\/**n * Returns `true` if this nullable map is either null or empty.n * @sample
samples.collections.Maps.Usage.mapIsNullOrEmptyn
*\/@SinceKotlin("1.3")\/@kotlin.internal.InlineOnly\/npublic inline fun <K, V> Map<out K,
V>?.isNullOrEmpty(): Boolean {n contract {n returns(false) implies (this@isNullOrEmpty != null)n }n}n
return this == null || isEmpty()n}n\/n\/**n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.n
*\/n * @sample samples.collections.Maps.Usage.mapOrEmptyn *\/@kotlin.internal.InlineOnly\/npublic inline fun
<K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\/n\/**n * Returns this map if it's not emptyn *
or the result of calling [defaultValue] function if the map is empty.n *\/n * @sample
samples.collections.Maps.Usage.mapIfEmptyn *\/@SinceKotlin("1.3")\/@kotlin.internal.InlineOnly\/npublic
inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =n if (isEmpty())
defaultValue() else thisn}n\/n\/**n * Checks if the map contains the given key.n *\/n * This method allows to use the
`x in map` syntax for checking whether an object is contained in the map.n *\/@kotlin.internal.InlineOnly\/npublic
inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean =
containsKey(key)\/n\/**n * Returns the value corresponding to the given [key], or `null` if such a key is not present
in the map.n *\/@kotlin.internal.InlineOnly\/npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V>
Map<out K, V>.get(key: K): V? =n @Suppress("UNCHECKED_CAST") (this as Map<K,
V>).get(key)\/n\/**n * Allows to use the index operator for storing values in a mutable map.n
*\/@kotlin.internal.InlineOnly\/npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit
{n put(key, value)n}n}n\/n\/**n * Returns `true` if the map contains the specified [key].n *\/n * Allows to
overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.n
*\/@kotlin.internal.InlineOnly\/npublic inline fun <@kotlin.internal.OnlyInputTypes K> Map<out K,
*>.containsKey(key: K): Boolean =n @Suppress("UNCHECKED_CAST") (this as Map<K,
*>).containsKey(key)\/n\/**n * Returns `true` if the map maps one or more keys to the specified [value].n *\/n *
Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.n *\/n *
@sample samples.collections.Maps.Usage.containsValue
*\/@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some casesn *\/@kotlin.internal.InlineOnly\/npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K,
V>.containsValue(value: V): Boolean = this.containsValue(value)\/n\/n\/**n * Removes the specified key and its
corresponding value from this map.n *\/n * @return the previous value associated with the key, or `null` if the key
was not present in the map.n *\/n * Allows to overcome type-safety restriction of `remove` that requires to pass a key
of type `K`.n *\/@kotlin.internal.InlineOnly\/npublic inline fun <@kotlin.internal.OnlyInputTypes K, V>
MutableMap<out K, V>.remove(key: K): V? =n @Suppress("UNCHECKED_CAST") (this as MutableMap<K,
V>).remove(key)\/n\/**n * Returns the key component of the map entry.n *\/n * This method allows to use

```

destructuring declarations when working with maps, for example:

```

for ((key, value) in map) {
    // do something with the key and the value
}

```

`@kotlin.internal.InlineOnly` public inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key

Returns the value component of the map entry.

This method allows to use destructuring declarations when working with maps, for example:

```

for ((key, value) in map) {
    // do something with the key and the value
}

```

`@kotlin.internal.InlineOnly` public inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value

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)

Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.

`@sample` samples.collections.Maps.Usage.getOrElse

`@kotlin.internal.InlineOnly` public inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue

internal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {
 val value = get(key)
 if (value == null && !containsKey(key)) {
 return defaultValue()
 } else {
 @Suppress("UNCHECKED_CAST")
 return value as V
 }
}

Returns the value for the given [key] or throws an exception if there is no such key in the map.

If the map was created by [withDefault], resorts to its `defaultValue` provider function instead of throwing an exception.

`@throws` NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default value was provided for that map.

`@SinceKotlin("1.1")` public fun <K, V> Map<K, V>.getValue(key: K): V = getOrDefault(key)

Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function, puts its result into the map under the given key and returns it.

Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.

`@sample` samples.collections.Maps.Usage.getOrPut

`@kotlin.internal.InlineOnly` public inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, 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].

`@sample` samples.collections.Maps.Usage.forOverEntries

`@kotlin.internal.InlineOnly` public inline operator fun <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<K, 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 {
 return entries.associateByTo(destination, { it.key }, transform)
}

Populates the given [destination] map with entries having the keys obtained by applying the [transform] function to each entry in this [Map] and the values of this map.

In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite the value associated with the former one.

public inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {
 return entries.associateByTo(destination, transform, { it.value })
}

Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.

public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {
 for ((key, value) in pairs) {
 put(key, value)
 }
}

Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.

public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {
 for ((key, value) in pairs) {
 put(key, value)
 }
}

Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.

public fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {
 for ((key, value) in pairs) {
 put(key, value)
 }
}

Returns a new map with entries having the keys of this map and the values obtained by applying the [transform] function to each entry in this [Map].

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

```

@sample samples.collections.Maps.Transformations.mapValues\n *\npublic inline fun <K, V, R> Map<out K,
V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n    return mapValuesTo(LinkedHashMap<K,
R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries
having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this
map.\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the
value associated with the former one.\n * The returned map preserves the entry iteration order of the original
map.\n * @sample samples.collections.Maps.Transformations.mapKeys\n *\npublic inline fun <K, V, R>
Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n    return
mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n *
Returns a map containing all key-value pairs with keys matching the given [predicate].\n * The returned map
preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterKeys\n
*\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n    val result =
LinkedHashMap<K, V>()\n    for (entry in this) {\n        if (predicate(entry.key)) {\n            result.put(entry.key,
entry.value)\n        }\n    }\n    return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values
matching the given [predicate].\n * The returned map preserves the entry iteration order of the original map.\n *
@sample samples.collections.Maps.Filtering.filterValues\n *\npublic inline fun <K, V> Map<out K,
V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n    val result = LinkedHashMap<K, V>()\n    for (entry
in this) {\n        if (predicate(entry.value)) {\n            result.put(entry.key, entry.value)\n        }\n    }\n    return
result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]
parameter.\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterTo\n
*\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate:
(Map.Entry<K, V>) -> Boolean): M {\n    for (element in this) {\n        if (predicate(element)) {\n
destination.put(element.key, element.value)\n        }\n    }\n    return destination\n}\n\n/**\n * Returns a new map
containing all key-value pairs matching the given [predicate].\n * The returned map preserves the entry iteration
order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n *\npublic inline fun <K, V>
Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return
filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate]
into the given [destination].\n * @return the destination map.\n * @sample
samples.collections.Maps.Filtering.filterNotTo\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>>
Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n    for (element in
this) {\n        if (!predicate(element)) {\n            destination.put(element.key, element.value)\n        }\n    }\n    return
destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n *
The returned map preserves the entry iteration order of the original map.\n * @sample
samples.collections.Maps.Filtering.filterNot\n *\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate:
(Map.Entry<K, V>) -> Boolean): Map<K, V> {\n    return filterNotTo(LinkedHashMap<K, V>(),
predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *
The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the
same key the last one gets added to the map.\n *\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V>
{\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyMap()\n            1 -> mapOf(if (this is
List) this[0] else iterator().next())\n            else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n        }\n    }\n    return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs from the given collection of pairs.\n *\npublic fun <K, V, M :
MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n    destination.apply {
putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n *
The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have
the same key the last one gets added to the map.\n *\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K,
V> = when (size) {\n    0 -> emptyMap()\n    1 -> mapOf(this[0])\n    else -> toMap(LinkedHashMap<K,
V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs

```

from the given array of pairs.

```

public fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

```

* Returns a new map containing all key-value pairs from the given sequence of pairs.

```

public fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()

```

* Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.

```

public fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =
    destination.apply { putAll(this@toMap) }

```

* Returns a new read-only map containing all key-value pairs from the original map.

```

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMap(): Map<K, V> =
    when (size) {
        0 -> emptyMap()
        1 -> toSingletonMap()
        else -> toMutableMap()
    }

```

* Returns a new mutable map containing all key-value pairs from the original map.

```

@SinceKotlin("1.1")
public fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> =
    LinkedHashMap(this)

```

* Populates and returns the [destination] mutable map with key-value pairs from the given map.

```

@SinceKotlin("1.1")
public fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =
    destination.apply {
        putAll(this@toMap)
    }

```

* Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].

```

public operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =
    if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }

```

* Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =
    if (this.isEmpty()) pairs.toMap() else
    LinkedHashMap(this).apply { putAll(pairs) }

```

* Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =
    if (this.isEmpty())
        pairs.toMap() else
    LinkedHashMap(this).apply { putAll(pairs) }

```

* Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].

```

public operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()

```

* Creates a new read-only map by replacing or adding entries to this map from another [map].

```

public operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =
    LinkedHashMap(this).apply { putAll(map) }

```

* Appends or replaces the given [pair] in this mutable map.

```

@kotlin.internal.InlineOnly
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.

```

@kotlin.internal.InlineOnly
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.

```

@kotlin.internal.InlineOnly
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.

```

@kotlin.internal.InlineOnly
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].\n * The returned map preserves
the entry iteration order of the original map.\n * SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K,
V>.minus(key: K): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(key)
}.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] collection.\n * The returned map preserves the entry
iteration order of the original map.\n * SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K,
V>.minus(keys: Iterable<K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] array.\n * The returned map preserves the entry iteration
order of the original map.\n * SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys:
Array<out K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] sequence.\n * The returned map preserves the entry
iteration order of the original map.\n * SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K,
V>.minus(keys: Sequence<K>): Map<K, V> =\n    this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n * SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(key: K) {\n    remove(key)\n}\n\n/**\n * Removes all entries the keys of which are contained in
the given [keys] collection from this mutable map.\n * SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Iterable<K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries the keys of
which are contained in the given [keys] array from this mutable map.\n * SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Array<out K>) {\n    this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries from the
keys of which are contained in the given [keys] sequence from this mutable map.\n * SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K,
V>.minusAssign(keys: Sequence<K>) {\n    this.keys.removeAll(keys)\n}\n\n// do not expose for now
@PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n    0 -> emptyMap()\n    1 -> toSingletonMapOrSelf()\n    else -> this\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n@file:UseExperimental(kotlin.ex
perimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport
kotlin.contracts.*\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n    private const val
serialVersionUID: Long = 3406603774387020532\n    override fun equals(other: Any?): Boolean = other is
Set<*> && other.isEmpty()\n    override fun hashCode(): Int = 0\n    override fun toString(): String = ""\n\n
override val size: Int get() = 0\n    override fun isEmpty(): Boolean = true\n    override fun contains(element:
Nothing): Boolean = false\n    override fun containsAll(elements: Collection<Nothing>): Boolean =
elements.isEmpty()\n\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n    private fun readResolve():
Any = EmptySet\n}\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n *
@sample samples.collections.Collections.Sets.emptyReadOnlySet\n * public fun <T> emptySet(): Set<T> =
EmptySet\n\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the
order they were specified.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.readOnlySet\n * public fun <T> setOf(vararg elements: T): Set<T> = if
(elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns an empty read-only set. The returned set is
serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n\n\n * SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty
new [MutableSet].\n * The returned set preserves the element iteration order.\n * @sample

```

```

samples.collections.Collections.Sets.emptyMutableSet\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> =
LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.mutableSet\n */\npublic
fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [HashSet].
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> =
HashSet()\n\n/** Returns a new [HashSet] with the given elements. *\npublic fun <T> hashSetOf(vararg elements:
T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new
[LinkedHashSet].\n * @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Builds a new read-only [Set] by
populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same
elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it
outside of the function produces an unspecified behavior.\n *\n * Elements of the set are iterated in the order they
were added by the [builderAction].\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildSet(@BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n    contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    return
LinkedHashSet<E>().apply(builderAction)\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet]
using the given [builderAction]\n * and returning a read-only set with the same elements.\n *\n * The set passed as a
receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an
unspecified behavior.\n *\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n *\n *
@throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <E>
buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n    contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n    checkBuilderCapacity(capacity)\n    return
LinkedHashSet<E>(mapCapacity(capacity)).apply(builderAction)\n}\n\n/** Returns this Set if it's not `null` and
the empty set otherwise. *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this
?.emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n    0 -> emptySet()\n    1 ->
setOf(iterator().next())\n    else -> this\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n@\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n@SinceKotlin("1.1")\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses
the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toByteOrNull(radix: Int): Byte? {\n    val int =
this.toIntOrNull(radix) ?: return null\n    if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n
return int.toByte()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string
is not a valid representation of a number.\n *\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(): Short? =

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toShortOrNull(radix = 10)\n\n**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the
string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n *\n@SinceKotlin("1.1")\npublic fun String.toShortOrNull(radix:
Int): Short? {\n    val int = this.toIntOrNull(radix) ?: return null\n    if (int < Short.MIN_VALUE || int >
Short.MAX_VALUE) return null\n    return int.toShort()\n}\n\n**\n * Parses the string as an [Int] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n *\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n**\n * Parses the
string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n *\n@throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*\n *\n@SinceKotlin("1.1")\npublic fun String.toIntOrNull(radix: Int): Int? {\n    checkRadix(radix)\n\n    val length
= this.length\n    if (length == 0) return null\n\n    val start: Int\n    val isNegative: Boolean\n    val limit: Int\n    val
firstChar = this[0]\n    if (firstChar < '0') { // Possible leading sign\n        if (length == 1) return null // non-digit
(possible sign) only, no digits after\n\n        start = 1\n\n        if (firstChar == '-') {\n            isNegative = true\n
limit = Int.MIN_VALUE\n        } else if (firstChar == '+') {\n            isNegative = false\n            limit = -
Int.MAX_VALUE\n        } else\n            return null\n    } else {\n        start = 0\n        isNegative = false\n        limit
= -Int.MAX_VALUE\n    }\n\n    val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n\n    var limitBeforeMul =
limitForMaxRadix\n    var result = 0\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n
if (digit < 0) return null\n        if (result < limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n
                limitBeforeMul = limit / radix\n            }\n            if (result < limitBeforeMul) {\n                return null\n
            }\n        } else {\n            return null\n        }\n    }\n\n    result *= radix\n\n    if (result < limit + digit)
return null\n\n    result -= digit\n    }\n\n    return if (isNegative) result else -result\n}\n\n**\n * Parses the string
as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*\n *\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n**\n * Parses the
string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a
number.\n *\n *\n@throws IllegalArgumentException when [radix] is not a valid radix for string to number
conversion.\n *\n *\n@SinceKotlin("1.1")\npublic fun String.toLongOrNull(radix: Int): Long? {\n
    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val start: Int\n    val isNegative:
Boolean\n    val limit: Long\n\n    val firstChar = this[0]\n    if (firstChar < '0') { // Possible leading sign\n        if
(length == 1) return null // non-digit (possible sign) only, no digits after\n\n        start = 1\n\n        if (firstChar == '-')
{\n            isNegative = true\n            limit = Long.MIN_VALUE\n        } else if (firstChar == '+') {\n           
isNegative = false\n            limit = -Long.MAX_VALUE\n        } else\n            return null\n    } else {\n        start =
0\n        isNegative = false\n        limit = -Long.MAX_VALUE\n    }\n\n    val limitForMaxRadix = (-
Long.MAX_VALUE) / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    var result = 0L\n    for (i in start until
length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result < limitBeforeMul)
{\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / radix\n            }\n
            if (result < limitBeforeMul) {\n                return null\n            }\n        } else {\n            return null\n
        }\n    }\n\n    result *= radix\n\n    if (result < limit + digit) return null\n\n    result -= digit\n    }\n\n
return if (isNegative) result else -result\n}\n\n\ninternal fun numberFormatError(input: String): Nothing = throw
NumberFormatException("Invalid number format: '$input')\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n *\n@file:kotlin.jvm.JvmName("UnsignedKt")\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage
kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor
Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n\n@PublishedApi\ninternal fun ulongCompare(v1: Long,
v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal
fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n\n@PublishedApi\ninternal fun
uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are
based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava

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Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n    val dividend =
v1.toLong()\n    val divisor = v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2)
ULong(0) else ULong(1)\n    }\n    // Optimization - use signed division if both dividend and divisor < 2^63\n    if
(dividend >= 0) {\n        return ULong(dividend / divisor)\n    }\n    // Otherwise, approximate the quotient, check,
and correct if necessary.\n    val quotient = ((dividend ushr 1) / divisor) shl 1\n    val rem = dividend - quotient *
divisor\n    return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n}\n\n@PublishedApi\ninternal
fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n    val dividend = v1.toLong()\n    val divisor =
v2.toLong()\n    if (divisor < 0) { // i.e., divisor >= 2^63:\n        return if (v1 < v2) {\n            v1 // dividend <
divisor\n        } else {\n            v1 - v2 // dividend >= divisor\n        }\n    }\n    // Optimization - use signed
modulus if both dividend and divisor < 2^63\n    if (dividend >= 0) {\n        return ULong(dividend % divisor)\n    }\n    // Otherwise, approximate the quotient, check, and correct if necessary.\n    val quotient = ((dividend ushr 1)
/ divisor) shl 1\n    val rem = dividend - quotient * divisor\n    return ULong(rem - if (ULong(rem) >=
ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n
v.isNaN() -> 0u\n    v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n    v >=
UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n    v <= Int.MAX_VALUE -> v.toInt().toUInt()\n    else -
> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt() // Int.MAX_VALUE < v <
UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n
v.isNaN() -> 0u\n    v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n    v >=
ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n    v < Long.MAX_VALUE ->
v.toLong().toULong()\n    // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not
representable in Double, so don't handle them.\n    else -> (v - 9223372036854775808.0).toLong().toULong() +
9223372036854775808uL // Long.MAX_VALUE + 1 < v <
ULong.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and
Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n@PublishedApi\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\n@PublishedApi\ninternal fun ulongToString(v: Long, base: Int): String {\n
if (v >= 0) return v.toString(base)\n    var quotient = ((v ushr 1) / base) shl 1\n    var rem = v - quotient * base\n
if (rem >= base) {\n        rem -= base\n        quotient += 1\n    }\n    return quotient.toString(base) +
rem.toString(base)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\n@kotlin.internal class
IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n    override
fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n/**\n * Returns the size of
this iterable if it is known, or `null` otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of
this iterable if it is known, or the specified [default] value otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n/**
Returns true when it's safe to convert this collection to a set without changing contains method behavior.\n */\n\nprivate
fun <T> Collection<T>.safeToConvertToSet() = size > 2 && this is ArrayList\n\n/** Converts this collection to a
set, when it's worth so and it doesn't change contains method behavior.\n */\n\n@kotlin.internal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n    when (this) {\n        is
Set -> this\n        is Collection -> when {\n            source is Collection && source.size < 2 -> this\n

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else -> if (this.safeToConvertToSet()) toHashSet() else this\n    }\n    else -> toHashSet()\n }\n\n/**
Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\ninternal fun
<T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n    when (this) {\n        is Set -> this\n        is
Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n    }\n\n/**\n *
Returns a single list of all elements from all collections in the given collection.\n * @sample
samples.collections.Iterables.Operations.flattenIterable\n */\npublic fun <T> Iterable<Iterable<T>>.flatten():
List<T> {\n    val result = ArrayList<T>()\n    for (element in this) {\n        result.addAll(element)\n    }\n    return
result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this
collection.\n * *second* list is built from the second values of each pair from this collection.\n * @sample
samples.collections.Iterables.Operations.unzipIterable\n */\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n    val expectedSize = collectionSizeOrDefault(10)\n    val listT =
ArrayList<T>(expectedSize)\n    val listR = ArrayList<R>(expectedSize)\n    for (pair in this) {\n
listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n"/>\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage
kotlin.sequences\n\n/**\n * Given an [iterator] function constructs a [Sequence] that returns values through the
[Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the sequence is potentially
infinite.\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>):
Sequence<T> = object : Sequence<T> {\n    override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a
sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n * @sample
samples.collections.Sequences.Building.sequenceFromIterator\n */\n\npublic fun <T>
Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that
returns the specified values.\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n
*/\n\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else
elements.asSequence()\n\n/**\n * Returns an empty sequence.\n */\n\npublic fun <T> emptySequence():
Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>,\nDropTakeSequence<Nothing> {\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n    override fun
drop(n: Int) = EmptySequence\n    override fun take(n: Int) = EmptySequence\n}\n\n/**\n * Returns this sequence if
it's not `null` and the empty sequence otherwise.\n * @sample
samples.collections.Sequences.Usage.sequenceOrEmpty\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty():
Sequence<T> = this ?: emptySequence()\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n
*/\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n */\n\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n    val iterator =
this@ifEmpty.iterator()\n    if (iterator.hasNext()) {\n        yieldAll(iterator)\n    } else {\n
yieldAll(defaultValue())\n    }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n * The operation is _intermediate_ and _stateless_.\n */\n\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n * The operation is _intermediate_ and _stateless_.\n
*/\n\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n    if (this is TransformingSequence<*, *>) {\n        return (this as TransformingSequence<*,
T>).flatten(iterator)\n    }\n    return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n * The operation is _terminal_.\n */\n\npublic fun <T, R>

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iterator = sequence.iterator()\n    var left = count\n\n    // Shouldn't be called from constructor to avoid
premature iteration\n    private fun drop() {\n        while (left > 0 && iterator.hasNext()) {\n
iterator.next()\n            left--\n        }\n    }\n\n    override fun next(): T {\n        drop()\n        return
iterator.next()\n    }\n\n    override fun hasNext(): Boolean {\n        drop()\n        return iterator.hasNext()\n
    }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while the given
[predicate] returns `true` and returns\n * all values after that.\n */\ninternal class
DropWhileSequence<T>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) ->
Boolean\n): Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator =
sequence.iterator()\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n
var nextItem: T? = null\n\n        private fun drop() {\n            while (iterator.hasNext()) {\n                val item =
iterator.next()\n                if (!predicate(item)) {\n                    nextItem = item\n                    dropState = 1\n
return\n                }\n            }\n            dropState = 0\n        }\n\n        override fun next(): T {\n            if
(dropState == -1)\n                drop()\n\n            if (dropState == 1) {\n
@Suppress(\\"UNCHECKED_CAST\")\n                val result = nextItem as T\n                nextItem = null\n
dropState = 0\n                return result\n            }\n            return iterator.next()\n        }\n\n        override fun
hasNext(): Boolean {\n            if (dropState == -1)\n                drop()\n            return dropState == 1 ||
iterator.hasNext()\n        }\n    }\n}\n\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>,\nprivate val keySelector: (T) -> K) : Sequence<T> {\n    override fun iterator(): Iterator<T> =
DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(private val source:
Iterator<T>,\nprivate val keySelector: (T) -> K) : AbstractIterator<T>() {\n    private val observed =
HashSet<K>()\n    override fun computeNext() {\n        while (source.hasNext()) {\n            val next =
source.next()\n            val key = keySelector(next)\n            if (observed.add(key)) {\n                setNext(next)\n
return\n            }\n        }\n        done()\n    }\n}\n\nprivate class GeneratorSequence<T : Any>(private val
getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\n    override fun iterator():
Iterator<T> = object : Iterator<T> {\n        var nextItem: T? = null\n        var nextState: Int = -2 // -2 for initial
unknown, -1 for next unknown, 0 for done, 1 for continue\n\n        private fun calcNext() {\n            nextItem = if
(nextState == -2) getInitialValue() else getNextValue(nextItem!)\n            nextState = if (nextItem == null) 0 else
1\n        }\n\n        override fun next(): T {\n            if (nextState < 0)\n                calcNext()\n\n            if (nextState
== 0)\n                throw NoSuchElementException()\n            val result = nextItem as T\n            // Do not clean
nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n            nextState
= -1\n            return result\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState < 0)\n
calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a wrapper sequence that provides
values of this sequence, but ensures it can be iterated only one time.\n * The operation is _intermediate_ and
_stateless_.\n * [IllegalStateException] is thrown on iterating the returned sequence from the second time.\n */\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n    // as? does not work in js\n    //return this as?
ConstrainedOnceSequence<T> ? : ConstrainedOnceSequence(this)\n    return if (this is
ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n/**\n * Returns a sequence which
invokes the function to calculate the next value on each iteration until the function returns `null`.\n * The
returned sequence is constrained to be iterated only once.\n * @see constrainOnce\n * @see
kotlin.sequences.sequence\n * @sample samples.collections.Sequences.Building.generateSequence\n */\npublic
fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n    return
GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by
the starting value [seed] and the function [nextFunction],\n * which is invoked to calculate the next value based on
the previous one on each iteration.\n * The sequence produces values until it encounters first `null` value.\n * If
[seed] is `null`, an empty sequence is produced.\n * The sequence can be iterated multiple times, each time
starting with [seed].\n * @see kotlin.sequences.sequence\n * @sample
samples.collections.Sequences.Building.generateSequenceWithSeed\n
*/\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?,

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nextFunction: (T) -> T?): Sequence<T> =\n if (seed == null)\n     EmptySequence\n else\n     GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction],\n * which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next\n * value based on the previous one on each iteration.\n * The sequence produces values until it encounters first\n * `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n * The sequence can be\n * iterated multiple times.\n * @see kotlin.sequences.sequence\n * @sample\n * samples.collections.Sequences.Building.generateSequenceWithLazySeed\n */\npublic fun <T : Any>\n generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n     GeneratorSequence(seedFunction, nextFunction)\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin\n * Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be\n * found in the license/LICENSE.txt file.\n\n*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("PreconditionsKt")\n\npackage\n kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic\n inline fun require(value: Boolean): Unit {\n     contract {\n         returns() implies value\n     }\n     require(value) {\n         "Failed requirement." }\n }\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling\n * [lazyMessage] if the [value] is false.\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n     contract {\n         returns() implies value\n     }\n     if (!value) {\n         val message = lazyMessage()\n         throw\n         IllegalArgumentException(message.toString())\n     }\n }\n\n/**\n * Throws an [IllegalArgumentException] if the\n * [value] is null. Otherwise returns the not null value.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any>\n requireNotNull(value: T?): T {\n     contract {\n         returns() implies (value != null)\n     }\n     return\n     requireNotNull(value) { "Required value was null." }\n }\n\n/**\n * Throws an [IllegalArgumentException] with\n * the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n * @sample\n * samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T :\n Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n     contract {\n         returns() implies (value !=\n         null)\n     }\n     if (value == null) {\n         val message = lazyMessage()\n         throw\n         IllegalArgumentException(message.toString())\n     } else {\n         return value\n     }\n }\n\n/**\n * Throws an\n * [IllegalStateException] if the [value] is false.\n * @sample\n * samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun\n check(value: Boolean): Unit {\n     contract {\n         returns() implies value\n     }\n     check(value) { "Check failed." }\n }\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic\n inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n     contract {\n         returns() implies value\n     }\n     if (!value) {\n         val message = lazyMessage()\n         throw IllegalStateException(message.toString())\n     }\n }\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic\n inline fun <T : Any> checkNotNull(value: T?): T {\n     contract {\n         returns() implies (value != null)\n     }\n     return checkNotNull(value) { "Required value was null." }\n }\n\n/**\n * Throws an [IllegalStateException] with\n * the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n * @sample\n * samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T :\n Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n     contract {\n         returns() implies (value !=\n         null)\n     }\n     if (value == null) {\n         val message = lazyMessage()\n         throw\n         IllegalStateException(message.toString())\n     } else {\n         return value\n     }\n }\n\n/**\n * Throws an\n * [IllegalStateException] with the given [message].\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw\n     IllegalStateException(message.toString())\n\n"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming\n * Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

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license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: [\a href="https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib">\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt\(index: Int\): T {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt\(index: Int\): Byte {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt\(index: Int\): Short {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt\(index: Int\): Int {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt\(index: Int\): Long {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt\(index: Int\): Float {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt\(index: Int\): Double {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt\(index: Int\): Boolean {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n/**\n * Returns an element at the given \[index\] or throws an \[IndexOutOfBoundsException\] if the \[index\] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt\(index: Int\): Char {\n return elementAtOrElse\(index\) { throw IndexOutOfBoundsException\("index: \\$index, size: \\$size"\)} }\n\n}\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList\(\): List<T> {\n return ArrayList<T>\(this.unsafeCast<Array<Any?>>\(\)\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList\(\): List<Byte> {\n return this.unsafeCast<Array<Byte>>\(\).asList\(\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList\(\): List<Short> {\n return this.unsafeCast<Array<Short>>\(\).asList\(\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList\(\): List<Int> {\n return this.unsafeCast<Array<Int>>\(\).asList\(\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList\(\): List<Long> {\n return this.unsafeCast<Array<Long>>\(\).asList\(\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList\(\): List<Float> {\n return this.unsafeCast<Array<Float>>\(\).asList\(\) }\n\n/**\n * Returns a \[List\] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList\(\): List<Double> {\n return](https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib)

`NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*\n@SinceKotlin("1.1")\n@library("arrayEquals")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun ByteArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun ShortArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun IntArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun LongArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun FloatArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun DoubleArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun BooleanArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin("1.1")\n@library("arrayHashCode")\npublic actual fun CharArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n

*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun <T> Array<out T>.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n

*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun ByteArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is

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[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun ShortArray.contentToString(): String {\n
    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun IntArray.contentToString(): String {\n
    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun LongArray.contentToString(): String {\n
    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun FloatArray.contentToString(): String {\n
    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun DoubleArray.contentToString(): String
{\n    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun BooleanArray.contentToString(): String
{\n    definedExternally\n}\n\n**\n * Returns a string representation of the contents of the specified array as if it is
[List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.1")\n@library("arrayToString")\npublic actual fun CharArray.contentToString(): String {\n
    definedExternally\n}\n\n**\n * Copies this array or its subrange into the [destination] array and returns that
array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it
overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of
the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this
array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws
IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified
[destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the
[destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:
Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n    arrayCopy(this, destination, destinationOffset,
startIndex, endIndex)\n    return destination\n}\n\n**\n * Copies this array or its subrange into the [destination]
array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the
subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n *
@param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
_ARGUMENTS")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): ByteArray {\n    arrayCopy(this.unsafeCast<Array<Byte>>(),
destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n**\n
 * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the

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same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n    arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n    arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n    arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n    return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
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*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT
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_ARGUMENTS`)
public actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): FloatArray {
    arrayCopy(this.unsafeCast<Array<Float>>(),
destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): DoubleArray {
    arrayCopy(this.unsafeCast<Array<Double>>(),
destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): BooleanArray {
    arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset,
startIndex, endIndex)
    return destination
}

/**
 * Copies this array or its subrange into the [destination] array and returns that array.
 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.
 * @param destination the array to copy to.
 * @param destinationOffset the position in the [destination] array to copy to, 0 by default.
 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.
 * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.
 * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],
 * or when that index is out of the [destination] array indices range.
 * @return the [destination] array.
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0,
startIndex: Int = 0, endIndex: Int = size): CharArray {
    arrayCopy(this.unsafeCast<Array<Char>>(),
destination.unsafeCast<Array<Char>>(), 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")
@kotlin.internal.InlineOnly
@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")
public actual inline fun <T> Array<out T>.copyOf(): Array<T> {
    return this.asDynamic().slice()
}

/**
 * Returns new array which is a copy of the original array.
 * @sample samples.collections.Arrays.CopyOfOperations.copyOf
 */
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Suppress("NOTHING_TO_INLINE")
public

```


array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

```

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n  return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n  require(newSize >= 0) { \"Invalid new
array size: $newSize.\" }\n  return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is
a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with `false` values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
BooleanArray.copyOf(newSize: Int): BooleanArray {\n  require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n  return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns
new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or
padded at the end with null char (`\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with null char (`\u0000`) values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun
CharArray.copyOf(newSize: Int): CharArray {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n  return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is
a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is
truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with `null` values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int):
Array<T?> {\n  require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n  return arrayCopyResize(this,
newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n
* @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the
range (exclusive), must be in `fromIndex..array.size`\n
*\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out
T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n  AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n  return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must
be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the
range (exclusive), must be in `fromIndex..array.size`\n *\npublic actual fun ShortArray.copyOfRange(fromIndex:
Int, toIndex: Int): ShortArray {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n *

```

```

@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun
IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n  AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n  return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a
copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must
be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType(`LongArray`,
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun
FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the
range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex:
Int, toIndex: Int): DoubleArray {\n  AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return
this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range
of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n *
@param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun
BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType(`BooleanArray`,
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n
* @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun
CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  return withType(`CharArray`,
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the
end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentOutOfRangeException if [fromIndex] is greater than [toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n  this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic

```

```

actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {
    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)
    this.asDynamic().fill(element, 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 IllegalArgumentException if [fromIndex] is greater than [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)
}

/**
 * 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 IllegalArgumentException if [fromIndex] is greater than [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)
}

/**
 * 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 IllegalArgumentException if [fromIndex] is greater than [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)
}

/**
 * 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 IllegalArgumentException if [fromIndex] is greater than [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)
}

/**
 * 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 IllegalArgumentException if [fromIndex] is greater than [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)
}

```



```

CharArray.sort(): Unit {
    definedExternally
}

/**
 * Sorts the array in-place according to the natural order
 * of its elements.
 * The sort is _stable_. It means that equal elements preserve their order relative to each other
 * after sorting.
 */
@sample samples.collections.Arrays.Sorting.sortArrayOfComparable

/**
 * public actual fun
 * <T : Comparable<T>> Array<out T>.sort(): Unit {
 *     if (size > 1) sortArray(this)
 * }

/**
 * Sorts the array in-
 * place according to the order specified by the given [comparison] function.
 * The sort is _stable_. It means that
 * equal elements preserve their order relative to each other after sorting.
 */
public fun <T> Array<out
T>.sort(comparison: (a: T, b: T) -> Int): Unit {
    if (size > 1) sortArrayWith(this, comparison)
}

/**
 * Sorts
 * the array in-place according to the order specified by the given [comparison] function.
 */
@kotlin.internal.InlineOnly
public inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int):
Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by
 * the given [comparison] function.
 */
@kotlin.internal.InlineOnly
public inline fun ShortArray.sort(noinline
comparison: (a: Short, b: Short) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-
 * place according to the order specified by the given [comparison] function.
 */
@kotlin.internal.InlineOnly
public
inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given
 * [comparison] function.
 */
@kotlin.internal.InlineOnly
public inline fun LongArray.sort(noinline comparison:
(a: Long, b: Long) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according
 * to the order specified by the given [comparison] function.
 */
@kotlin.internal.InlineOnly
public inline fun
FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given
 * [comparison] function.
 */
@kotlin.internal.InlineOnly
public inline fun DoubleArray.sort(noinline comparison:
(a: Double, b: Double) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place
 * according to the order specified by the given [comparison] function.
 */
@kotlin.internal.InlineOnly
public
inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {
    asDynamic().sort(comparison)
}

/**
 * Sorts the array in-place according to the order specified by the given
 * [comparator].
 * The sort is _stable_. It means that equal elements preserve their order relative to each other
 * after sorting.
 */
public actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {
    if
(size > 1) sortArrayWith(this, comparator)
}

/**
 * Returns a typed object array containing all of the
 * elements of this primitive array.
 */
public actual fun ByteArray.toTypedArray(): Array<Byte> {
    return
js("[]").slice.call(this)
}

/**
 * Returns a typed object array containing all of the elements of this primitive
 * array.
 */
public actual fun ShortArray.toTypedArray(): Array<Short> {
    return
js("[]").slice.call(this)
}

/**
 * Returns a typed object array containing all of the elements of this primitive
 * array.
 */
public actual fun IntArray.toTypedArray(): Array<Int> {
    return js("[]").slice.call(this)
}

/**
 * Returns a typed object array containing all of the elements of this primitive array.
 */
public actual fun
LongArray.toTypedArray(): Array<Long> {
    return js("[]").slice.call(this)
}

/**
 * Returns a typed*
 * object array containing all of the elements of this primitive array.
 */
public actual fun
FloatArray.toTypedArray(): Array<Float> {
    return js("[]").slice.call(this)
}

/**
 * Returns a typed*
 * object array containing all of the elements of this primitive array.
 */
public actual fun
DoubleArray.toTypedArray(): Array<Double> {
    return js("[]").slice.call(this)
}

/**
 * Returns a typed*
 * object array containing all of the elements of this primitive array.
 */
public actual fun
BooleanArray.toTypedArray(): Array<Boolean> {
    return js("[]").slice.call(this)
}

/**
 * Returns a
 * typed object array containing all of the elements of this primitive array.
 */
public actual fun
CharArray.toTypedArray(): Array<Char> {
    return Array(size) { index -> this[index] }
}

/**
 * Copyright
 * 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed
 * by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
@file:kotlin.jvm.JvmName("ComparisonsKt")
@file:kotlin.jvm.JvmMultifileClass
package
kotlin.comparisons

/**
 * 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.

```

@sample
samples.comparisons.Comparisons.compareValuesByWithSelectors
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 {
    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. * The result of comparison of these [Comparable] instances is returned.

```

@sample
samples.comparisons.Comparisons.compareValuesByWithSingleSelector
public inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {
    return compareValues(selector(a), selector(b))
}

```

* 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 objects of type K which are then being compared with the given [comparator].

```

@sample
samples.comparisons.Comparisons.compareValuesByWithComparator
public inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {
    return comparator.compare(selector(a), selector(b))
}

```

/// Not so useful without type inference for receiver of expression

```

compareValuesWith(v1, v2, compareBy { it.prop1 })
thenByDescending { it.prop2 }

```

* Compares two values using the specified [comparator].

```

@Suppress("NOTHING_TO_INLINE")
public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)

```

* Compares two nullable [Comparable] values. Null is considered less than any value.

```

@sample
samples.comparisons.Comparisons.compareValues
public fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {
    if (a === b) return 0
    if (a == null) return -1
    if (b == null) return 1
    @Suppress("UNCHECKED_CAST")
    return (a as Comparable<Any>).compareTo(b)
}

```

* 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].

```

@sample
samples.comparisons.Comparisons.compareByWithSelectors
public fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {
    require(selectors.size > 0)
    return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }
}

```

* Creates a comparator using the function to transform value to a [Comparable] instance for comparison.

```

@sample
samples.comparisons.Comparisons.compareByWithSingleSelector
public inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -> compareValuesBy(a, b, selector) }

```

* Creates a comparator using the [selector] function to transform values being compared and then applying the specified [comparator] to compare transformed values.

```

@sample
samples.comparisons.Comparisons.compareByWithComparator
public inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =
    Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }

```

* Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.

```

@sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector
public inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =
    Comparator { a, b -> compareValuesBy(b, a, selector) }

```

* 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.

```

@sample
samples.comparisons.Comparisons.compareByDescendingWithComparator
public inline fun <T, K> compareByDescending(comparator: Comparator<in K>,

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samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a
=== b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n*@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n
*\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n *\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n
*\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\npublic fun <T :
Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n *\npublic fun <T>
Comparator<T>.reversed(): Comparator<T> = when (this) {\n    is ReversedComparator -> this.comparator\n
NaturalOrderComparator -> @Suppress("UNCHECKED_CAST") (ReverseOrderComparator as
Comparator<T>)\n    ReverseOrderComparator -> @Suppress("UNCHECKED_CAST")
(NaturalOrderComparator as Comparator<T>)\n    else -> ReversedComparator(this)\n}\n\n\nprivate class
ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n    override fun compare(a:
T, b: T): Int = comparator.compare(b, a)\n    @Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed():
Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
    @Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n
    @Suppress("VIRTUAL_MEMBER_HIDDEN")\n    fun reversed(): Comparator<Comparable<Any>> =
NaturalOrderComparator\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\npackage kotlin\n\npublic actual interface Comparator<T> {\n
    @JsName("compare")\n    actual fun compare(a: T, b: T): Int\n}\n\npublic actual inline fun <T>
Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T> {\n    override
fun compare(a: T, b: T): Int = comparison(a, b)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*\n\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*\n\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string
explaining why the implementation is missing.\n *\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason:
String): Nothing = throw NotImplementedError("An operation is not implemented: $reason")\n\n\n\n/**\n * Calls
the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for
[scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*\n\n\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n    contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n\n/**\n * Calls the specified
function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n

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*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block()\n}\n\n/**\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n */\n\n*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return receiver.block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n */\n\n*\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block()\n  return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n */\n\n*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  block(this)\n  return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n */\n\n*\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n  contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n  }\n  return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n */\n\n*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n */\n\n*\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.1")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n  contract {\n    callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n  }\n  return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n * A zero-based index of current iteration is passed as a parameter to [action].\n * @sample samples.misc.ControlFlow.repeat\n */\n\n*\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\n  contract { callsInPlace(action) }\n  for (index in 0 until times) {\n    action(index)\n  }\n}\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n*\n\npackage kotlin.comparisons\n\n/\n\nNOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n\nSee: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n\n*\n@SinceKotlin("1.1")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n  return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n\n*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n  return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n\n*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n  return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n\n*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n  return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n\n*\n@SinceKotlin("1.1")\n@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n  return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */

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*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Float, b: Float): Float {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two
values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Double, b: Double): Double {\n    return Math.max(a, b)\n}\n\n/**\n * Returns the greater of
three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual fun <T : Comparable<T>>
maxOf(a: T, b: T, c: T): T {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n    return Math.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Short, b: Short, c: Short): Short {\n    return Math.max(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Int, b: Int, c: Int): Int {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three
values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual inline fun maxOf(a: Long, b: Long,
c: Long): Long {\n    return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Float, b: Float, c: Float): Float {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater
of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun maxOf(a: Double, b: Double, c: Double): Double {\n    return Math.max(a, b, c)\n}\n\n/**\n * Returns the
smaller of two values.\n
* If values are equal, returns the first one.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual fun
<T : Comparable<T>> minOf(a: T, b: T): T {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two
values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Byte, b: Byte): Byte {\n    return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n *
Returns the smaller of two values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Short, b: Short): Short {\n    return Math.min(a.toInt(),
b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Int, b: Int): Int {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR", "NOTHING_TO_INLINE")\npublic actual
inline fun minOf(a: Long, b: Long): Long {\n    return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two
values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Float, b: Float): Float {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two
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inline fun minOf(a: Double, b: Double): Double {\n    return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of
three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual fun <T : Comparable<T>>
minOf(a: T, b: T, c: T): T {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n    return Math.min(a.toInt(), b.toInt(),
c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")@kotlin.internal.InlineOnly@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Short, b: Short, c: Short): Short {\n    return Math.min(a.toInt(), b.toInt(),

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c.toInt()).unsafeCast<Short>()\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Int, b: Int, c: Int): Int {\n    return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three
values.\n *\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long,
c: Long): Long {\n    return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Float, b: Float, c: Float): Float {\n    return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller
of three values.\n
*\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION_ERROR")\npublic actual
inline fun minOf(a: Double, b: Double, c: Double): Double {\n    return Math.min(a, b, c)\n}\n\n", "/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n * \n *
Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n    return
get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 2.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
List<T>.component2(): T {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n * \n * Throws an
[IndexOutOfBoundsException] if the size of this list is less than 3.\n *\n@kotlin.internal.InlineOnly\npublic inline
operator fun <T> List<T>.component3(): T {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the list.\n
* \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n    return
get(3)\n}\n\n/**\n * Returns 5th *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the
size of this list is less than 5.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
List<T>.component5(): T {\n    return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n
*\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n    if
(this is Collection)\n        return contains(element)\n        return indexOf(element) >= 0\n}\n\n/**\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this
collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n *\npublic fun <T>
Iterable<T>.elementAt(index: Int): T {\n    if (this is List)\n        return get(index)\n        return
elementAtOrElse(index) {\n            throw IndexOutOfBoundsException("Collection doesn't contain element at index
$index.")\n        }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if
the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n    return
get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function
if the [index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\npublic fun <T>
Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    if (this is List)\n        return
this.getOrElse(index, defaultValue)\n        if (index < 0)\n            return defaultValue(index)\n            val iterator = iterator()\n            var count = 0\n            while (iterator.hasNext()) {\n                val element = iterator.next()\n                if (index == count++)\n                    return element\n            }\n            return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the

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[index] is out of bounds of this collection.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\npublic fun <T>
Iterable<T>.elementAtOrNull(index: Int): T? {\n    if (this is List)\n        return this.getOrNull(index)\n    if (index <
0)\n        return null\n    val iterator = iterator()\n    var count = 0\n    while (iterator.hasNext()) {\n        val element =
iterator.next()\n        if (index == count++)\n            return element\n    }\n    return null\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *^\n@kotlin.internal.InlineOnly\npublic inline fun
<T> List<T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n
*^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    return
firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such
element was found.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) ->
Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n *^\n@kotlin.internal.InlineOnly\npublic inline fun <T>
List<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first
element.\n * @throws [NoSuchElementException] if the collection is empty.\n *^\npublic fun <T>
Iterable<T>.first(): T {\n    when (this) {\n        is List -> return this.first()\n        else -> {\n            val iterator =
iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException("Collection is empty.")\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException]
if the list is empty.\n *^\npublic fun <T> List<T>.first(): T {\n    if (isEmpty())\n        throw
NoSuchElementException("List is empty.")\n    return this[0]\n}\n\n/**\n * Returns the first element matching the
given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *^\npublic inline fun <T>
Iterable<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns
the first element, or `null` if the collection is empty.\n *^\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n    when
(this) {\n        is List -> {\n            if (isEmpty())\n                return null\n            else\n                return this[0]\n        }\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n *^\npublic
fun <T> List<T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n *^\npublic inline fun <T>
Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return
element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.\n *^\n@kotlin.internal.InlineOnly\npublic inline
fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this list.\n *^\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n    return if (index >=
0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection
does not contain element.\n *^\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T):
Int {\n    if (this is List) return this.indexOf(element)\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -
1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n
*^\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n    return
indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
collection does not contain such element.\n *^\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) ->
Boolean): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if
(predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the list does not contain such element.\n *^\npublic inline fun <T>

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List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {
    var index = 0
    for (item in this) {
        if (predicate(item))
            return index
            index++
    }
    return -1
}
// Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.

public inline fun <T> Iterable<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
}
// Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.

public inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        if (predicate(iterator.previous())) {
            return iterator.nextIndex()
        }
    }
    return -1
}
// Returns the last element.

@throws [NoSuchElementException] if the collection is empty.

public fun <T> Iterable<T>.last(): T {
    when (this) {
        is List -> return this.last()
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                throw NoSuchElementException("Collection is empty.")
            var last = iterator.next()
            while (iterator.hasNext())
                last = iterator.next()
            return last
        }
    }
}
// Returns the last element.

@throws [NoSuchElementException] if the list is empty.

public fun <T> List<T>.last(): T {
    if (isEmpty())
        throw NoSuchElementException("List is empty.")
    return this[lastIndex]
}
// Returns the last element matching the given [predicate].

@throws [NoSuchElementException] if no such element is found.

public inline fun <T> Iterable<T>.last(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("Collection contains no element matching the predicate.")
    @Suppress("UNCHECKED_CAST")
    return last as T
}
// Returns the last element matching the given [predicate].

@throws [NoSuchElementException] if no such element is found.

public inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        val element = iterator.previous()
        if (predicate(element))
            return element
    }
    throw NoSuchElementException("List contains no element matching the predicate.")
}
// Returns last index of [element], or -1 if the collection does not contain element.

public fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {
    if (this is List)
        return this.lastIndexOf(element)
    var lastIndex = -1
    var index = 0
    for (item in this) {
        checkIndexOverflow(index)
        if (element == item)
            lastIndex = index
            index++
    }
    return lastIndex
}
// Returns last index of [element], or -1 if the list does not contain element.

@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in some cases
public fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {
    return lastIndexOf(element)
}
// Returns the last element, or `null` if the collection is empty.

public fun <T> Iterable<T>.lastOrNull(): T? {
    when (this) {
        is List -> return if (isEmpty()) null else this[size - 1]
        else -> {
            val iterator = iterator()
            if (!iterator.hasNext())
                return null
            var last = iterator.next()
            while (iterator.hasNext())
                last = iterator.next()
            return last
        }
    }
}
// Returns the last element, or `null` if the list is empty.

public fun <T> List<T>.lastOrNull(): T? {
    return if (isEmpty()) null else this[size - 1]
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.

public inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    var last: T? = null
    for (element in this) {
        if (predicate(element)) {
            last = element
        }
    }
    return last
}
// Returns the last element matching the given [predicate], or `null` if no such element was found.

public inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {
    val iterator = this.listIterator(size)
    while (iterator.hasPrevious()) {
        val element = iterator.previous()
        if (predicate(element))
            return element
    }
    return null
}
// Returns a random element from this collection.

@throws NoSuchElementException if this collection is empty.

@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
public inline fun <T> Collection<T>.random(): T {
    return random(Random)
}
// Returns a random element from this collection using the specified source of randomness.

@throws NoSuchElementException if this collection is empty.

@SinceKotlin("1.3")
public fun <T> Collection<T>.random(random: Random): T {
    if (isEmpty())

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throw NoSuchElementException("Collection is empty.")\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nCollection<T>.randomOrNull(): T? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> Collection<T>.randomOrNull(random: Random): T? {\n    if (isEmpty())\n        return null\n    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (iterator.hasNext())\n                throw NoSuchElementException("Collection is empty.")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw\n                IllegalArgumentException("Collection has more than one element.")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw\n        NoSuchElementException("List is empty.")\n        1 -> this[0]\n        else -> throw\n        IllegalArgumentException("List has more than one element.")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw\n                IllegalArgumentException("Collection contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\nreturn single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single =\n                iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found =\n        false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single =\n                element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n\n * @throws IllegalArgumentException if [n] is negative.\n */\n\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    if (n == 0) return toList()\n    val list: ArrayList<T> =\n        if (this is Collection<*>) {\n            val resultSize = size - n\n            if (resultSize <= 0)\n                return emptyList()\n            if (resultSize == 1)\n                return listOf(last())\n            list = ArrayList<T>(resultSize)\n            if (this is List<T>) {\n                if (this is RandomAccess) {\n                    for (index in n until size)\n                        list.add(this[index])\n                } else {\n                    for (item in listIterator(n))\n                        list.add(item)\n                }\n            }\n            return list\n        }\n    else {\n        list = ArrayList<T>()\n        var count = 0\n        for (item in this) {\n            if (count >= n) list.add(item) else ++count\n        }\n        return list.optimizeReadOnlyList()\n    }\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n\n * @throws IllegalArgumentException if [n] is negative.\n */\n\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size -\n        n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n */\n\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator =\n            listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous()))\n                return\n        }\n    }\n}

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take(iterator.nextIndex() + 1)\n    }\n    }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing
all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n * \npublic inline fun <T> Iterable<T>.dropWhile(predicate:
(T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if
(yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \npublic
inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) ->
Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \npublic inline
fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) ->
Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element))
destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing all elements that are
instances of specified type parameter R.\n * \npublic inline fun <reified R> Iterable<*>.filterIsInstance():
List<@kotlin.internal.NoInfer R> {\n    return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n * \npublic inline fun <reified
R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if
(element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements
not matching the given [predicate].\n * \npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean):
List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that
are not `null`.\n * \npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n    return
filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *
\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n    for
(element in this) if (element != null) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \npublic inline fun <T, C :
MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element
in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (predicate(element))
destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the
specified [indices] range.\n * \npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if
(indices.isEmpty()) return listOf()\n    return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n * \npublic fun <T> List<T>.slice(indices:
Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n
val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * \n * @sample
samples.collections.Collections.Transformations.take\n * \npublic fun <T> Iterable<T>.take(n: Int):
List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return
emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return
listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n
        if (++count == n)\n            break\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing
last [n] elements.\n * \n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * \n * @sample
samples.collections.Collections.Transformations.take\n * \npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is

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RandomAccess) {\n    for (index in size - n until size)\n        list.add(this[index])\n    } else {\n    for (item in
listIterator(size - n))\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing last elements
satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic
inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (isEmpty())\n        return
emptyList()\n    val iterator = listIterator(size)\n    while (iterator.hasPrevious()) {\n        if
(!predicate(iterator.previous())) {\n            iterator.next()\n            val expectedSize = size - iterator.nextIndex()\n
            if (expectedSize == 0) return emptyList()\n            return ArrayList<T>(expectedSize).apply {\n                while
(iterator.hasNext())\n                    add(iterator.next())\n            }\n        }\n    }\n    return toList()\n}\n\n/**\n *
Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate:
(T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic
expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed(): List<T> {\n    if (this is Collection && size <= 1) return toList()\n    val
list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Sorts elements in the list in-place according to
natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that
equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R :
Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)
sortByWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort
order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n    if (size > 1)
sortByWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to
their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to
each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n
sortByWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n *
\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n    if (this is Collection) {\n        if (size <= 1)
return this.toList()\n        @Suppress("UNCHECKED_CAST")\n        return (toTypedArray<Comparable<T>>())
as Array<T>().apply { sort() }.asList()\n    }\n    return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of
all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The
sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic
inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n    return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural
sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n    return
sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending
according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order
relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T>
{\n    return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified
[comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n    if (this is
Collection) {\n        if (size <= 1) return this.toList()\n        @Suppress("UNCHECKED_CAST")\n        return
(toTypedArray<Any?>()) as Array<T>().apply { sortWith(comparator) }.asList()\n    }\n    return
toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the
elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n    val result
= BooleanArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return
}

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result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun
Collection<Byte>.toArray(): ByteArray {\n    val result = ByteArray(size)\n    var index = 0\n    for (element in
this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Char containing all of the
elements of this collection.\n */\npublic fun Collection<Char>.toArray(): CharArray {\n    val result =
CharArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] = element\n    return
result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun
Collection<Double>.toDoubleArray(): DoubleArray {\n    val result = DoubleArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Float
containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n
    val result = FloatArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n
*/\npublic fun Collection<Int>.toIntArray(): IntArray {\n    val result = IntArray(size)\n    var index = 0\n    for
(element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns an array of Long
containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n
    val result = LongArray(size)\n    var index = 0\n    for (element in this)\n        result[index++] =
element\n    return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n
*/\npublic fun Collection<Short>.toShortArray(): ShortArray {\n    val result = ShortArray(size)\n    var index = 0\n
for (element in this)\n        result[index++] = element\n    return result\n}\n\n/**\n * Returns a [Map]
containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n *
If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same
key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n    val capacity =
mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n    return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each element of the given collection\n *
and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector]
the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n    for (element in this) {\n
destination.put(keySelector(element), element)\n    }\n    return destination\n}\n\n/**\n * Populates and returns
the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n *
value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two
elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K,

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Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n  return groupByTo(LinkedHashMap<K,
MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to
each element of the original collection\n * by the key returned by the given [keySelector] function applied to the
element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V>
Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original collection by the key returned by the given [keySelector] function\n * applied to each element and
puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) ->
K): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<T>() }\n    list.add(element)\n  }\n  return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original collection\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M :
MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n  for (element in this) {\n    val key = keySelector(element)\n    val list =
destination.getOrPut(key) { ArrayList<V>() }\n    list.add(valueTransform(element))\n  }\n  return
destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin("1.1")\npublic inline fun <T, K>
Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n  return object : Grouping<T, K>
{\n    override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n    override fun keyOf(element:
T): K = keySelector(element)\n  }\n}\n\n/**\n * Returns a list containing the results of applying the given
[transform] function\n * to each element in the original collection.\n * \n * @sample
samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform:
(T) -> R): List<R> {\n  return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n *
and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R>
Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n  return
mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only
the non-null results of applying the given [transform] function\n * to each element and its index in the original
collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns
the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any>
Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n  return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n
* @param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>>
Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n  forEachIndexed {
index, element -> transform(index, element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original collection\n * and appends the
results to the given [destination].\n * @param [transform] function that takes the index of an element and the
element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C :

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MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n  var
index = 0\n  for (item in this)\n    destination.add(transform(checkIndexOverflow(index++), item))\n  return
destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each element in the original collection.\n */\npublic inline fun <T, R : Any>
Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and
appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n  forEach {
element -> transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original collection\n * and appends the results to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C,
transform: (T) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an
[IndexValue] containing the index of that element and the element itself.\n */\npublic fun <T>
Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns a list containing only distinct elements from the given collection.\n * \n * The elements in the resulting list
are in the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Iterable<T>.distinct():
List<T> {\n  return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the
given collection\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the
resulting list are in the same order as they were in the source collection.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K>
Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n  val set = HashSet<K>()\n  val list = ArrayList<T>()\n
for (e in this) {\n    val key = selector(e)\n    if (set.add(key))\n      list.add(e)\n  }\n  return list\n}\n\n/**\n *
Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n *
The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all
elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n  val set = this.toMutableSet()\n  set.retainAll(other)\n
return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained
by the specified collection.\n * \n * The returned set preserves the element iteration order of the original
collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n  val set =
this.toMutableSet()\n  set.removeAll(other)\n  return set\n}\n\n/**\n * Returns a mutable set containing all
distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the
original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n  return when (this) {\n
is Collection<T> -> LinkedHashSet(this)\n    else -> toCollection(LinkedHashSet<T>())\n  }\n}\n\n/**\n *
Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element
iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in
the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in
both collections use [intersect].\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n  val
set = this.toMutableSet()\n  set.addAll(other)\n  return set\n}\n\n/**\n * Returns `true` if all elements match the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T>
Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n  if (this is Collection && isEmpty()) return true\n  for
(element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n * Returns `true` if collection has at
least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T>
Iterable<T>.any(): Boolean {\n  if (this is Collection) return !isEmpty()\n  return iterator().hasNext()\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n  if (this is Collection && isEmpty()) return false\n  for

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(element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of elements in
this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n    if (this is Collection) return size\n    var count =
0\n    for (element in this) checkCountOverflow(++count)\n    return count\n}\n\n/**\n * Returns the number of
elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T>
Iterable<T>.count(predicate: (T) -> Boolean): Int {\n    if (this is Collection && isEmpty()) return 0\n    var count =
0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator
value and each element.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R
{\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n */\n @param
[operation] function that takes the index of an element, current accumulator value\n * and the element itself, and
calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation:
(index: Int, acc: R, T) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator
= operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left to each element and
current accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R):
R {\n    var accumulator = initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while
(iterator.hasPrevious()) {\n            accumulator = operation(iterator.previous(), accumulator)\n        }\n    }\n    return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original list and current accumulator value.\n */\n @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int,
T, acc: R) -> R): R {\n    var accumulator = initial\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n
while (iterator.hasPrevious()) {\n            val index = iterator.previousIndex()\n            accumulator =
operation(index, iterator.previous(), accumulator)\n        }\n    }\n    return accumulator\n}\n\n/**\n * Performs the
given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T>
Iterable<T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Performs the
given [action] on each element, providing sequential index with the element.\n */\n @param [action] function that
takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic
inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n    var index = 0\n    for (item in
this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n */\n\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun
Iterable<Double>.max(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max =
iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if
(e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the largest element or
`null` if there are no elements.\n */\n\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun
Iterable<Float>.max(): Float? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while
(iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n\n * Returns the first
element yielding the largest value of the given function or `null` if there
are no elements.\n */\n\n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R>
Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var

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maxValue = selector(maxElem)\n do {\n     val e = iterator.next()\n     val v = selector(e)\n     if (maxValue <
v) {\n         maxElem = e\n         maxValue = v\n     }\n } while (iterator.hasNext())\n return
maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or
`null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while
(iterator.hasNext()) {\n     val e = iterator.next()\n     if (comparator.compare(max, e) < 0) max = e\n }\n
return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n * If any of elements
is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.min(): Double? {\n     val iterator
= iterator()\n if (!iterator.hasNext()) return null\n     var min = iterator.next()\n     if (min.isNaN()) return min\n
while (iterator.hasNext()) {\n     val e = iterator.next()\n     if (e.isNaN()) return e\n     if (min > e) min = e\n
}\n     return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n * If any of
elements is `NaN` returns `NaN`.\n */\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.min(): Float? {\n     val
iterator = iterator()\n if (!iterator.hasNext()) return null\n     var min = iterator.next()\n     if (min.isNaN()) return
min\n while (iterator.hasNext()) {\n     val e = iterator.next()\n     if (e.isNaN()) return e\n     if (min > e) min
= e\n }\n     return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\n\npublic
fun <T : Comparable<T>> Iterable<T>.min(): T? {\n     val iterator = iterator()\n if (!iterator.hasNext()) return
null\n     var min = iterator.next()\n     while (iterator.hasNext()) {\n     val e = iterator.next()\n     if (min > e) min
= e\n     }\n     return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n */\n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic
inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R): T? {\n     val iterator = iterator()\n if
(!iterator.hasNext()) return null\n     var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n     var
minValue = selector(minElem)\n do {\n     val e = iterator.next()\n     val v = selector(e)\n     if (minValue >
v) {\n         minElem = e\n         minValue = v\n     }\n } while (iterator.hasNext())\n return
minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n */\n\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T?
{\n     val iterator = iterator()\n if (!iterator.hasNext()) return null\n     var min = iterator.next()\n while
(iterator.hasNext()) {\n     val e = iterator.next()\n     if (comparator.compare(min, e) > 0) min = e\n }\n     return
min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n */\n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n     if (this is
Collection) return isEmpty()\n     return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the
given [predicate].\n */\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic
inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n     if (this is Collection && isEmpty())
return true\n     for (element in this) if (predicate(element)) return false\n     return true\n}\n\n/**\n * Performs the
given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin("1.1")\npublic
inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n     return apply { for (element in this)
action(element) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left
to right to current accumulator value and each element.\n */\n * @sample
samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation:
(acc: S, T) -> S): S {\n     val iterator = this.iterator()\n if (!iterator.hasNext()) throw
UnsupportedOperationException("Empty collection can't be reduced.")\n     var accumulator: S = iterator.next()\n
while (iterator.hasNext()) {\n     accumulator = operation(accumulator, iterator.next())\n }\n     return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n */\n * to current accumulator value and each element with its index in the original collection.\n */\n * @param
[operation] function that takes the index of an element, current accumulator value\n */\n * and the element itself and
calculates the next accumulator value.\n */\n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic
inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n     val
iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't
be reduced.")\n     var index = 1\n     var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n

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accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the collection is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if
(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value
starting with last element and applying [operation] from right to left to each element and current accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        accumulator =
operation(iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with last element and applying [operation] from right to left\n * to each element with its index in the original list and
current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n *
and current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        throw UnsupportedOperationException("Empty list can't be reduced.")\n    var
accumulator: S = iterator.previous()\n    while (iterator.hasPrevious()) {\n        val index = iterator.previousIndex()\n
accumulator = operation(index, iterator.previous(), accumulator)\n    }\n    return accumulator\n}\n\n/**\n *
Accumulates value starting with last element and applying [operation] from right to left to each element and current
accumulator value. Returns null if the list is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n    val iterator = listIterator(size)\n    if
(!iterator.hasPrevious())\n        return null\n    var accumulator: S = iterator.previous()\n    while
(iterator.hasPrevious()) {\n        accumulator = operation(iterator.previous(), accumulator)\n    }\n    return
accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n    val estimatedSize =
collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n    val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n    var accumulator = initial\n    for (element in this) {\n
accumulator = operation(accumulator, element)\n    result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original collection and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n    val
estimatedSize = collectionSizeOrDefault(9)\n    if (estimatedSize == 0) return listOf(initial)\n    val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n    var index = 0\n    var accumulator = initial\n    for

```



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(element in this) {
    accumulator = operation(index++, accumulator, element)
    result.add(accumulator)
}
return result
}

/**
 * Returns a list containing successive accumulation values generated by applying
 [operation] from left to right
 * to each element and current accumulator value that starts with the first element of
 this collection.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator
 value and the element, and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
Iterable<T>.scanReduce(operation: (acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result =
    ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    while (iterator.hasNext()) {
        accumulator = operation(accumulator, iterator.next())
        result.add(accumulator)
    }
    return
    result
}

/**
 * Returns a list containing successive accumulation values generated by applying [operation] from
 left to right
 * to each element, its index in the original collection and current accumulator value that starts with the
 first element of this collection.
 * Note that `acc` value passed to [operation] function should not be mutated;
 * otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes the
 index of an element, current accumulator value
 * and the element itself, and calculates the next accumulator
 value.
 * @sample samples.collections.Collections.Aggregates.scanReduce
 */
@SinceKotlin("1.3")
@ExperimentalStdlibApi
public inline fun <S, T : S>
Iterable<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {
    val iterator = this.iterator()
    if (!iterator.hasNext()) return emptyList()
    var accumulator: S = iterator.next()
    val result =
    ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }
    var index = 1
    while (iterator.hasNext()) {
        accumulator = operation(index++, accumulator, iterator.next())
        result.add(accumulator)
    }
    return result
}

/**
 * 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 = 0.0
    for (element in this) {
        sum += selector(element)
    }
    return sum
}

/**
 * Returns
 an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are
 any `null` elements.
 */
public fun <T : Any> Iterable<T?>.requireNonNulls(): Iterable<T> {
    for (element in
    this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as Iterable<T>
}

/**
 * Returns an original
 collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null`
 elements.
 */
public fun <T : Any> List<T?>.requireNonNulls(): List<T> {
    for (element in this) {
        if (element == null) {
            throw IllegalArgumentException("null element found in $this.")
        }
    }
    @Suppress("UNCHECKED_CAST")
    return this as List<T>
}

/**
 * Splits this collection into a list of
 lists each not exceeding the given [size].
 * 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.
 * @sample
 samples.collections.Collections.Transformations.chunked
 */
@SinceKotlin("1.2")
public fun <T>
Iterable<T>.chunked(size: Int): List<List<T>> {
    return windowed(size, size, partialWindows = true)
}

/**
 * Splits this collection into several lists each not exceeding the given [size]
 * and applies the given [transform]
 function to an each.
 * @return list 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].
 * @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.
 * @sample samples.text.Strings.chunkedTransform
 */

```

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*^@SinceKotlin("1.2")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list
containing all elements of the original collection without the first occurrence of the given [element].\n */\npublic
operator fun <T> Iterable<T>.minus(element: T): List<T> {\n    val result =
ArrayList<T>(collectionSizeOrDefault(10))\n    var removed = false\n    return this.filterTo(result) { if (!removed
&& it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a list containing all elements of the
original collection except the elements contained in the given [elements] array.\n * \n * The [elements] array may be
converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable
implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T>
Iterable<T>.minus(elements: Array<out T>): List<T> {\n    if (elements.isEmpty()) return this.toList()\n    val other
= elements.toHashSet()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of
the original collection except the elements contained in the given [elements] collection.\n * \n * The [elements]
collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a
correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic
operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n    val other =
elements.convertToSetForSetOperationWith(this)\n    if (other.isEmpty())\n        return this.toList()\n    return
this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the
elements contained in the given [elements] sequence.\n * \n * The [elements] sequence may be converted to a
[HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation
of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T>
Iterable<T>.minus(elements: Sequence<T>): List<T> {\n    val other = elements.toHashSet()\n    if
(other.isEmpty())\n        return this.toList()\n    return this.filterNot { it in other }\n}\n\n/**\n * Returns a list
containing all elements of the original collection without the first occurrence of the given [element].\n */\n
*^@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n
return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>,
List<T>> {\n    val first = ArrayList<T>()\n    val second = ArrayList<T>()\n    for (element in this) {\n        if
(predicate(element)) {\n            first.add(element)\n        } else {\n            second.add(element)\n        }\n    }\n
return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the
given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n    if (this is Collection)
return this.plus(element)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.add(element)\n    return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n
*^public operator fun <T> Collection<T>.plus(element: T): List<T> {\n    val result = ArrayList<T>(size + 1)\n
result.addAll(this)\n    result.add(element)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the
original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T>
Iterable<T>.plus(elements: Array<out T>): List<T> {\n    if (this is Collection) return this.plus(elements)\n    val
result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a
list containing all elements of the original collection and then all elements of the given [elements] array.\n */\n
*^public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n    val result = ArrayList<T>(this.size +
elements.size)\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list
containing all elements of the original collection and then all elements of the given [elements] collection.\n */\n
*^public operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n    if (this is Collection) return
this.plus(elements)\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return
result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given
[elements] collection.\n */\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n    if
(elements is Collection) {\n        val result = ArrayList<T>(this.size + elements.size)\n        result.addAll(this)\n
result.addAll(elements)\n        return result\n    } else {\n        val result = ArrayList<T>(this)\n

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result.addAll(elements)\n    return result\n } }\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T>
Iterable<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n }\n\n/**\n * Returns a list containing all elements of the original
collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T>
Collection<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>(this.size + 10)\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n }\n\n/**\n * Returns a list containing all elements
of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Iterable<T>.plusElement(element: T): List<T> {\n    return plus(element)\n }\n\n/**\n * Returns a list containing all
elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>.plusElement(element: T): List<T> {\n    return plus(element)\n }\n\n/**\n * Returns a list of
snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n *
snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and
[step] must be positive and can be greater than the number of elements in this collection.\n * @param size the
number of elements to take in each window\n * @param step the number of elements to move the window forward
by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the
end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin("1.2")\npublic fun <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n
    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n
        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
        ArrayList<List<T>>(resultCapacity)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val
            windowSize = size.coerceAtMost(thisSize - index)\n            if (windowSize < size && !partialWindows) break\n
            result.add(List(windowSize) { this[it + index] })\n            index += step\n        }\n        return result\n
    }\n    val result = ArrayList<List<T>>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer =
    false).forEach {\n        result.add(it)\n    }\n    return result\n }\n\n/**\n * Returns a list of results of applying the
given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding
along this collection with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral
and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made
a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step]
must be positive and can be greater than the number of elements in this collection.\n * @param size the number of
elements to take in each window\n * @param step the number of elements to move the window forward by on an
each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if
any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin("1.2")\npublic fun <T, R>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
List<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this is List) {\n        val thisSize =
this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result =
        ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0
        until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows &&
            windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n
            index += step\n        }\n        return result\n    }\n    val result =
    ArrayList<R>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n
        result.add(transform(it))\n    }\n    return result\n }\n\n/**\n * Returns a list of pairs built from the elements of `this`
collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other:
Array<out R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n }\n\n/**\n * Returns a list of values
built from the elements of `this` collection and the [other] array with the same index\n * using the provided

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[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *
\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n    val arraySize = other.size\n    val
list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in this) {\n        if
(i >= arraySize) break\n        list.add(transform(element, other[i++]))\n    }\n    return list\n}\n\n/**\n * Returns a list
of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list
has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterable\n *
\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n    return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n *
\n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n *
\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n    val first = iterator()\n    val second
= other.iterator()\n    val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
other.collectionSizeOrDefault(10)))\n    while (first.hasNext() && second.hasNext()) {\n
list.add(transform(first.next(), second.next()))\n    }\n    return list\n}\n\n/**\n * Returns a list of pairs of each two
adjacent elements in this collection.\n *
\n * The returned list is empty if this collection contains less than two
elements.\n *
\n * @sample samples.collections.Collections.Transformations.zipWithNext\n *
\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n    return zipWithNext
{ a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to
an each pair of two adjacent elements in this collection.\n *
\n * The returned list is empty if this collection contains
less than two elements.\n *
\n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *
\n@SinceKotlin("1.2")\npublic
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n    val iterator = iterator()\n    if
(!iterator.hasNext()) return emptyList()\n    val result = mutableListOf<R>()\n    var current = iterator.next()\n
while (iterator.hasNext()) {\n        val next = iterator.next()\n        result.add(transform(current, next))\n        current
= next\n    }\n    return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n *
\n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n *
\n * @sample
samples.collections.Collections.Transformations.joinTo\n *
\npublic fun <T, A : Appendable>
Iterable<T>.joinTo(buffer: A, separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence
= "\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n    var count = 0\n    for (element in this) {\n        if (++count > 1) buffer.append(separator)\n
        if (limit < 0 || count <= limit) {\n            buffer.appendElement(element, transform)\n        } else break\n    }\n
if (limit >= 0 && count > limit) buffer.append(truncated)\n    buffer.append(postfix)\n    return buffer\n}\n\n/**\n *
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n *
\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n *
\n *
\n * @sample samples.collections.Collections.Transformations.joinToString\n *
\npublic fun <T>
Iterable<T>.joinToString(separator: CharSequence = '\n', prefix: CharSequence = "\n", postfix: CharSequence =
"\n", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n    return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this
collection as an [Iterable].\n *
\n *
\n * @kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable():
Iterable<T> {\n    return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning
its elements when being iterated.\n *
\n *
\n * @sample
samples.collections.Sequences.Building.sequenceFromCollection\n *
\npublic fun <T> Iterable<T>.asSequence():
Sequence<T> {\n    return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the

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collection.\n *\n@kotlin.jvm.JvmName("\averageOfByte")\npublic fun Iterable<Byte>.average(): Double {\n var
sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("\averageOfShort")\npublic fun
Iterable<Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n@kotlin.jvm.JvmName("\averageOfInt")\npublic fun Iterable<Int>.average(): Double {\n var sum: Double =
0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n checkCountOverflow(++count)\n
}\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the
collection.\n *\n@kotlin.jvm.JvmName("\averageOfLong")\npublic fun Iterable<Long>.average(): Double {\n
var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n *\n@kotlin.jvm.JvmName("\averageOfFloat")\npublic fun
Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*\n@kotlin.jvm.JvmName("\averageOfDouble")\npublic fun Iterable<Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("\sumOfByte")\npublic fun
Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfShort")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int = 0\n for
(element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n *\n@kotlin.jvm.JvmName("\sumOfInt")\npublic fun Iterable<Int>.sum(): Int {\n var sum: Int = 0\n
for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in
the collection.\n *\n@kotlin.jvm.JvmName("\sumOfLong")\npublic fun Iterable<Long>.sum(): Long {\n var
sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the
sum of all elements in the collection.\n *\n@kotlin.jvm.JvmName("\sumOfFloat")\npublic fun
Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*\n@kotlin.jvm.JvmName("\sumOfDouble")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double
= 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/** Returns the array if it's not `null`, or an
empty array otherwise. *\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty():
Array<out T> = this ?: emptyArray<T>()\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <T>
Collection<T>.toArray(): Array<T> =
copyToArray(this)\n\n@JsName("\copyToArray")\n@PublishedApi\ninternal fun <T> copyToArray(collection:
Collection<T>): Array<T> {\n return if (collection.asDynamic().toArray !== undefined)\n
collection.asDynamic().toArray().unsafeCast<Array<T>>()\n else\n
copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName("\copyToArrayImpl")\ninternal actual fun
copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n val array = emptyArray<Any?>()\n val iterator
= collection.iterator()\n while (iterator.hasNext())\n array.asDynamic().push(iterator.next())\n return
array\n}\n\n@JsName("\copyToExistingArrayImpl")\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n if (array.size < collection.size)\n return

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copyToArrayImpl(collection).unsafeCast<Array<T>>()\n    val iterator = collection.iterator()\n    var index = 0\n    while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    }\n    if (index < array.size)\n    {\n        array[index] = null.unsafeCast<T>()\n    }\n    return array\n}\n\n/**\n * Returns an immutable list\n * containing only the specified object [element].\n */\npublic fun <T> listOf(element: T): List<T> =\n    arrayOf(element)\n\n/**\n * Returns an immutable set containing only the specified object [element].\n */\npublic fun <T> setOf(element: T): Set<T> = hashSetOf(element)\n\n/**\n * Returns an immutable map,\n * mapping only the specified key to the\n * specified value.\n */\npublic fun <K, V> mapOf(pair: Pair<K, V>):\n    Map<K, V> = hashMapOf(pair)\n\n/**\n * Fills the list with the provided [value].\n * Each element in the list\n * gets replaced with the [value].\n */\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.fill(value: T):\n    Unit {\n    for (index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n * Randomly shuffles elements in\n * this list.\n * See: https://en.wikipedia.org/wiki/Fisher%20%80%93Yates\_shuffle#The\_modern\_algorithm\n */\n@SinceKotlin("1.2")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n */\n@SinceKotlin("1.2")\npublic actual fun\n    <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-  
place according to their natural sort order.\n * The sort is _stable_. It means that equal elements preserve their  
order relative to each other after sorting.\n */\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit\n    {\n    collectionsSort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order  
specified with [comparator].\n * The sort is _stable_. It means that equal elements preserve their order relative to  
each other after sorting.\n */\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>):\n    Unit {\n    collectionsSort(this, comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>,\n    comparator: Comparator<in T>) {\n    if (list.size <= 1) return\n\n    val array = copyToArray(list)\n    sortArrayWith(array, comparator)\n\n    for (i in 0 until array.size) {\n        list[i] = array[i]\n    }\n}\n\ninternal\n    actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\n    return\n        arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,\n    startIndex: Int, endIndex: Int) {\n    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n    val\n        rangeSize = endIndex - startIndex\n    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +\n        rangeSize, destination.size)\n\n    if (js("ArrayBuffer").isView(destination) &&\n        js("ArrayBuffer").isView(source)) {\n        val subrange = source.asDynamic().subarray(startIndex, endIndex)\n        destination.asDynamic().set(subrange, destinationOffset)\n    } else {\n        if (source !== destination ||\n            destinationOffset <= startIndex) {\n            for (index in 0 until rangeSize) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        } else {\n            for (index in\n                rangeSize - 1 downTo 0) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        }\n    }\n}\n\n// no singleton map implementation in js, return map as\n    is\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,\n    V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline\n    fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =\n        this.toMutableMap()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <T> Array<out\n    T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n    if (isVarargs)\n        // no need to copy vararg\n        array in JS\n        this\n    else\n        this.copyOf()\n\n@PublishedApi\ninternal actual fun\n    checkIndexOverflow(index: Int): Int {\n    if (index < 0) {\n        throwIndexOverflow()\n    }\n    return\n        index\n}\n\n@PublishedApi\ninternal actual fun\n    checkCountOverflow(count: Int): Int {\n    if (count < 0) {\n        throwCountOverflow()\n    }\n    return count\n}\n\n/**\n * JS map and set implementations do not make use of  
capacities or load factors.\n */\n@PublishedApi\ninternal actual fun\n    mapCapacity(expectedSize: Int) =\n        expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in  
Map/Set constructor yet.\n */\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@PublishedApi\ninternal actual\n    fun\n        checkBuilderCapacity(capacity: Int) {\n    require(capacity >= 0) {\n        "capacity must be non-negative.\n    }\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this

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*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * @sample samples.collections.Iterators.iterator\n */\n@kotlin.internal.InlineOnly\npublic inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n/**\n * Returns an [Iterator] that wraps each element produced
by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * @sample samples.collections.Iterators.withIndexIterator\n */\npublic fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/**\n * Performs the given [operation] on each element of
this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n */\npublic inline fun <T>
Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n    for (element in this) operation(element)\n}\n\n/**\n *
Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n */\ninternal class
IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n    private var index =
0\n    final override fun hasNext(): Boolean = iterator.hasNext()\n    final override fun next(): IndexedValue<T> =
IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("ComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin("1.1")\npublic expect fun
<T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte):
Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n
* Returns the greater of two values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float):
Float\n\n/**\n * Returns the greater of two values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double):
Double\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\npublic expect fun <T :
Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte):
Byte\n\n/**\n * Returns the greater of three values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the greater of three values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int):
Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c:
Float): Float\n\n/**\n * Returns the greater of three values.\n
*\n */\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c:
Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given
[comparator].\n */\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>):
T {\n    return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values
according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n
*\n */\n@SinceKotlin("1.1")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n    return if
(comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal,

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returns the first one.\n *^@SinceKotlin("1.1")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T):
T\n\n/**\n * Returns the smaller of two values.\n *^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short):
Short\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n
* Returns the smaller of two values.\n *^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline
fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float):
Float\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double):
Double\n\n/**\n * Returns the smaller of three values.\n *^@SinceKotlin("1.1")\npublic expect fun <T :
Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte):
Byte\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c:
Short): Short\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int):
Int\n\n/**\n * Returns the smaller of three values.\n *^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic
expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float):
Float\n\n/**\n * Returns the smaller of three values.\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c:
Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given
[comparator].\n *^@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>):
T {\n    return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values
according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n
*^@SinceKotlin("1.1")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n    return if
(comparator.compare(a, b) <= 0) a else b\n}\n\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*^@n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage
kotlin.collections\n\n/\n\n NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n
*^@public fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n    if (size == 0)\n        return emptyList()\n
    val iterator = entries.iterator()\n    if (!iterator.hasNext())\n        return emptyList()\n    val first = iterator.next()\n    if
(!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n
    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return
result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked
on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*^@public inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R>
{\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each entry of original map, to the given [destination].\n *^@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 {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n
    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample

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samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K,
V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform]
function\n * to each entry in the original map.\n */\npublic inline fun <K, V, R : Any> Map<out K,
V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends
only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in
R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n    forEach {
element -> transform(element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given
[transform] function to each entry of the original map\n * and appends the results to the given [destination].\n
*/\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform:
(Map.Entry<K, V>) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return
destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate:
(Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in this) if
(!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n *
@sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean
{\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K,
V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return false\n    for (element in
this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of entries in this map.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n    return size\n}\n\n/**\n
* Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K,
V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n    if (isEmpty()) return 0\n    var count = 0\n    for
(element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Performs the given [action] on each
entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action:
(Map.Entry<K, V>) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Returns the first entry
yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R :
Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return
entries.maxBy(selector)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided
[comparator] or `null` if there are no entries.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out
K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return
entries.maxWith(comparator)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function
or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic
inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K,
V>? {\n    return entries.minBy(selector)\n}\n\n/**\n * Returns the first entry having the smallest value according to
the provided [comparator] or `null` if there are no entries.\n */\npublic fun <K, V> Map<out K,
V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return
entries.minWith(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n    return
isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in
this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each entry and
returns the map itself afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n    return apply { for (element in this) action(element)
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n
*/

```

```

*  

@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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```

@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  

<@kotlin.internal.OnlyInputTypes 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.  

* The operation is _terminal_.  

  

@sample  

samples.collections.Collections.Elements.elementAtOrElse  

  

public fun <T>  

Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {  

    if (index < 0) return  

    defaultValue(index)  

    val iterator = iterator()  

    var count = 0  

    while (iterator.hasNext()) {  

        val element = iterator.next()  

        if (index == count++) return element  

    }  

    return  

    defaultValue(index)  

}  

  

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

* The operation is _terminal_.  

  

@sample  

samples.collections.Collections.Elements.elementAtOrNull  

  

public fun <T>  

Sequence<T>.elementOrNull(index: Int): T? {  

    if (index < 0) return null  

    val iterator = iterator()  

    var count = 0  

    while (iterator.hasNext()) {  

        val element = iterator.next()  

        if (index == count++) return element  

    }  

    return null  

}  

  

* Returns the first 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>.find(predicate: (T) -> Boolean): T? {  

    return firstOrNull(predicate)  

}  

  

* 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)  

}  

  

* 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()  

}  

  

* 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>.first(predicate: (T) -> Boolean): T {  

    for (element in this) if (predicate(element)) return element  

    throw NoSuchElementException("Sequence contains no element matching the predicate.")  

}  

  

* Returns the first element, or `null` if the sequence is empty.  

* The operation is _terminal_.  

  

public fun <T> Sequence<T>.firstOrNull(): T? {  

    val iterator = iterator()  

    if (!iterator.hasNext()) return null  

    return iterator.next()  

}  

  

* Returns the first element matching the given [predicate], or `null` if element was not 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  

    return null  

}  

  

* 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  

}  

  

* Returns index of the first element matching the given [predicate], or -1 if the sequence does not

```

```

contain such element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n
checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -
1\n}\n}\n/>\n *\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in
this) {\n        checkIndexOverflow(index)\n            if (predicate(item))\n                lastIndex = index\n            index++\n
}\n    return lastIndex\n}\n}\n/>\n *\n * Returns the last element.\n * @throws [NoSuchElementException] if the
sequence is empty.\n *\n * The operation is _terminal_.\n *\npublic fun <T> Sequence<T>.last(): T {\n    val
iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException("Sequence is empty.")\n
var last = iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return last\n}\n}\n/>\n *\n *
Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.last(predicate: (T) -
> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw
NoSuchElementException("Sequence contains no element matching the predicate.")\n
@Suppress("UNCHECKED_CAST")\n    return last as T\n}\n}\n/>\n *\n * Returns last index of [element], or -1 if the
sequence does not contain element.\n *\n * The operation is _terminal_.\n *\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n    var lastIndex = -1\n    var
index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n            if (element == item)\n                lastIndex =
index\n            index++\n    }\n    return lastIndex\n}\n}\n/>\n *\n * Returns the last element, or `null` if the sequence is
empty.\n *\n * The operation is _terminal_.\n *\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n    val iterator =
iterator()\n    if (!iterator.hasNext())\n        return null\n    var last = iterator.next()\n    while (iterator.hasNext())\n
last = iterator.next()\n    return last\n}\n}\n/>\n *\n * Returns the last element matching the given [predicate], or `null` if
no such element was found.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n        if
(predicate(element)) {\n            last = element\n        }\n    }\n    return last\n}\n}\n/>\n *\n * Returns the single element,
or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n *\npublic fun <T> Sequence<T>.single(): T {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        throw
NoSuchElementException("Sequence is empty.")\n    val single = iterator.next()\n    if (iterator.hasNext())\n        throw
IllegalArgumentException("Sequence has more than one element.")\n    return single\n}\n}\n/>\n *\n * Returns
the single element matching the given [predicate], or throws exception if there is no or more than one matching
element.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T> Sequence<T>.single(predicate: (T) ->
Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element))
{\n            if (found) throw IllegalArgumentException("Sequence contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Sequence
contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
T\n}\n}\n/>\n *\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The
operation is _terminal_.\n *\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n    val iterator = iterator()\n    if
(!iterator.hasNext())\n        return null\n    val single = iterator.next()\n    if (iterator.hasNext())\n        return
null\n    return single\n}\n}\n/>\n *\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n *\n * The operation is _terminal_.\n *\npublic inline fun <T>
Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n}\n/>\n *\n * Returns a sequence containing
all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @throws
IllegalArgumentException if [n] is negative.\n *\n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun <T> Sequence<T>.drop(n: Int):

```

```

Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> this
        this is DropTakeSequence -> this.drop(n)
        else -> DropSequence(this, n)
    }
}

Returns a sequence containing all elements except first elements that satisfy the given [predicate].
The operation is _intermediate_ and _stateless_.

@sample
samples.collections.Collections.Transformations.dropWhile(predicate: (T) -> Boolean): Sequence<T> {
    return DropWhileSequence(this, predicate)
}

Returns a sequence containing only elements matching the given [predicate].
The operation is _intermediate_ and _stateless_.

@public fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, true, predicate)
}

Returns a sequence 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.
The operation is _intermediate_ and _stateless_.

@public fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {
    // TODO: Rewrite with generalized MapFilterIndexingSequence
    return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) } ), { it.value })
}

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.
The operation is _terminal_.

@public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {
    forEachIndexed { index, element ->
        if (predicate(index, element)) destination.add(element)
    }
    return destination
}

Returns a sequence containing all elements that are instances of specified type parameter R.
The operation is _intermediate_ and _stateless_.

@public inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {
    @Suppress("UNCHECKED_CAST")
    return filter { it is R } as Sequence<R>
}

Appends all elements that are instances of specified type parameter R to the given [destination].
The operation is _terminal_.

@public inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {
    for (element in this) if (element is R) destination.add(element)
    return destination
}

Returns a sequence containing all elements not matching the given [predicate].
The operation is _intermediate_ and _stateless_.

@public fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {
    return FilteringSequence(this, false, predicate)
}

Returns a sequence containing all elements that are not `null`.
The operation is _intermediate_ and _stateless_.

@public fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {
    @Suppress("UNCHECKED_CAST")
    return filterNot { it == null } as Sequence<T>
}

Appends all elements that are not `null` to the given [destination].
The operation is _terminal_.

@public fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {
    for (element in this) if (element != null) destination.add(element)
    return destination
}

Appends all elements not matching the given [predicate] to the given [destination].
The operation is _terminal_.

@public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (!predicate(element)) destination.add(element)
    return destination
}

Appends all elements matching the given [predicate] to the given [destination].
The operation is _terminal_.

@public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {
    for (element in this) if (predicate(element)) destination.add(element)
    return destination
}

Returns a sequence containing first [n] elements.
The operation is _intermediate_ and _stateless_.

@throws IllegalArgumentException if [n] is negative.

@sample
samples.collections.Collections.Transformations.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

Returns a sequence containing first elements satisfying the given [predicate].
The operation is _intermediate_ and _stateless_.

@sample
samples.collections.Collections.Transformations.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

Returns a sequence containing first elements satisfying the given [predicate].
The operation is _intermediate_ and _stateless_.

@sample
samples.collections.Collections.Transformations.take(n: Int): Sequence<T> {
    require(n >= 0) { "Requested element count $n is less than zero." }
    return when {
        n == 0 -> emptySequence()
        this is DropTakeSequence -> this.take(n)
        else -> TakeSequence(this, n)
    }
}

```

```

*public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {
    return TakeWhileSequence(this, predicate)
}

* Returns a sequence that yields elements of this sequence sorted according to their natural sort order.
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* The operation is _intermediate_ and _stateful_.

*public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sorted.toMutableList()
            sortedList.sort()
            return sortedList.iterator()
        }
    }
}

* Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* The operation is _intermediate_ and _stateful_.

*public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareBy(selector))
}

* Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* The operation is _intermediate_ and _stateful_.

*public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {
    return sortedWith(compareByDescending(selector))
}

* Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* The operation is _intermediate_ and _stateful_.

*public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {
    return sortedWith(reverseOrder())
}

* Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].
* The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.
* The operation is _intermediate_ and _stateful_.

*public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {
    return object : Sequence<T> {
        override fun iterator(): Iterator<T> {
            val sortedList = this@sortedWith.toMutableList()
            sortedList.sortWith(comparator)
            return sortedList.iterator()
        }
    }
}

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

* @sample samples.collections.Collections.Transformations.associate

*public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
    return associateTo(LinkedHashMap<K, V>(), transform)
}

* 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_.

* @sample samples.collections.Collections.Transformations.associateBy

*public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {
    return associateByTo(LinkedHashMap<K, T>(), keySelector)
}

* 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_.

* @sample samples.collections.Collections.Transformations.associateByWithValueTransform

*public inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {
    return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)
}

* Populates and returns the [destination] mutable map with key-value pairs, where key is provided by the [keySelector] function applied to each element of the given sequence 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.
* The operation is _terminal_.

* @sample samples.collections.Collections.Transformations.associateByTo

*public inline fun <T, K, M : MutableMap<K, V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    return destination.apply {
        associateBy(keySelector, valueTransform)
    }
}

```

```

MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {
    for (element in this) {
        destination.put(keySelector(element), element)
    }
    return destination
}

Populates and returns the [destination] mutable map with key-value pairs,
where key is provided by the [keySelector] function and
value is provided by the [valueTransform] function 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 operation is _terminal_.
@sample
samples.collections.Collections.Transformations.associateByToWithValueTransform

public inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<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
provided by [transform] function applied to each element of the given sequence.
If any of two pairs would have the same key the last one gets added to the map.
The operation is
_terminal_.
@sample
samples.collections.Collections.Transformations.associateTo

public inline fun
<T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>):
M {
    for (element in this) {
        destination += transform(element)
    }
    return destination
}

Returns a [Map] where keys are elements from the given sequence and values are
produced by the
[valueSelector] function applied to each element.
If any two elements are equal, the last one gets added to
the map.
The returned map preserves the entry iteration order of the original sequence.
The operation is _terminal_.
@sample
samples.collections.Collections.Transformations.associateWith

@SinceKotlin("1.3")
public inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V):
Map<K, V> {
    val result = LinkedHashMap<K, V>()
    return associateWithTo(result,
valueSelector)
}

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_.
@sample
samples.collections.Collections.Transformations.associateWithTo

@SinceKotlin("1.3")
public inline fun
<K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M
{
    for (element in this) {
        destination.put(element, valueSelector(element))
    }
    return
destination
}

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 {
    for (item in this) {
        destination.add(item)
    }
    return destination
}

Returns a [HashSet] of all
elements.
The operation is _terminal_.
public fun <T> Sequence<T>.toHashSet(): HashSet<T> {
    return toCollection(HashSet<T>())
}

Returns a [List] containing all elements.
The operation is
_terminal_.
public fun <T> Sequence<T>.toList(): List<T> {
    return
this.toMutableList().optimizeReadOnlyList()
}

Returns a [MutableList] filled with all elements of this
sequence.
The operation is _terminal_.
public fun <T> Sequence<T>.toMutableList(): MutableList<T>
{
    return toCollection(ArrayList<T>())
}

Returns a [Set] of all elements.
The returned set
preserves the element iteration order of the original sequence.
The operation is _terminal_.
public fun
<T> Sequence<T>.toSet(): Set<T> {
    return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()
}

Returns a single sequence of all elements
from results of [transform] function being invoked on each element of original sequence.
The operation is
_intermediate_ and _stateless_.
@sample
samples.collections.Collections.Transformations.flatMap

public fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {
    return
FlatteningSequence(this, transform, { it.iterator() })
}

Appends all elements yielded from results of
[transform] function being invoked on each element of original sequence, to the given [destination].
The operation is _terminal_.
public inline fun <T, R, C : MutableCollection<in R>>
Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {
    for (element in this) {
        val
list = transform(element)
        destination.addAll(list)
    }
    return destination
}

Groups elements of

```

the original sequence by the key returned by the given [keySelector] function applied to each element and returns a map where each group key is associated with a list of corresponding elements. The returned map preserves the entry iteration order of the keys produced from the original sequence. The operation is `_terminal_`. @sample `samples.collections.Collections.Transformations.groupBy`

```

public inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
    return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
}

```

Groups values returned by the [valueTransform] function applied to each element of the original sequence by the key returned by the given [keySelector] function applied to the element and returns a map where each group key is associated with a list of corresponding values. The returned map preserves the entry iteration order of the keys produced from the original sequence. The operation is `_terminal_`. @sample `samples.collections.Collections.Transformations.groupByKeysAndValues`

```

public inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {
    return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)
}

```

Groups elements of the original sequence 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. The operation is `_terminal_`. @sample `samples.collections.Collections.Transformations.groupBy`

```

public inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<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 sequence 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. The operation is `_terminal_`. @sample `samples.collections.Collections.Transformations.groupByKeysAndValues`

```

public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {
    for (element in this) {
        val key = keySelector(element)
        val list = destination.getOrPut(key) { ArrayList<V>() }
        list.add(valueTransform(element))
    }
    return destination
}

```

Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations using the specified [keySelector] function to extract a key from each element. The operation is `_intermediate_` and `_stateless_`. @sample `samples.collections.Grouping.groupingByEachCount`

```

@SinceKotlin("1.1")
public inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
    return object : Grouping<T, K> {
        override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
        override fun keyOf(element: T): K = keySelector(element)
    }
}

```

Returns a sequence containing the results of applying the given [transform] function to each element in the original sequence. The operation is `_intermediate_` and `_stateless_`. @sample `samples.collections.Collections.Transformations.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_`. @sample `samples.collections.Collections.Transformations.mapIndexed`

```

public fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {
    return TransformingIndexedSequence(this, transform)
}

```

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. @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_`. @sample `samples.collections.Collections.Transformations.mapIndexedNotNull`

```

public fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {
    return TransformingIndexedSequence(this, transform).filterNotNull()
}

```

Applies the given [transform] function to each element and its index in the original sequence and appends only the non-null results to the given

[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/>\n *\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n *\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/>\n *\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/>\n *\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/>\n *\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/>\n *\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/>\n *\n * Returns a sequence containing only distinct elements from the given sequence.\n *\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/>\n *\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n *\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/>\n *\n * Returns a mutable set containing all distinct elements from the given sequence.\n *\n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this)\n set.add(item)\n return set\n}\n\n/>\n *\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n */\n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/>\n *\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n */\n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n return iterator().hasNext()\n}\n\n/>\n *\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n */\n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/>\n *\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this)\n checkCountOverflow(++count)\n return count\n}\n\n/>\n *\n * Returns the number of elements matching the given


```

[predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) checkCountOverflow(++count)\n    return count\n}\n\n/>\n *\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/>\n *\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n *\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n    return accumulator\n}\n\n/>\n *\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/>\n *\n * Performs the given [action] on each element, providing sequential index with the element.\n *\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n    var index = 0\n    for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/>\n *\n * Returns the largest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.max(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/>\n *\n * Returns the largest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.max(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    if (max.isNaN()) return max\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (max < e) max = e\n    }\n    return max\n}\n\n/>\n *\n * Returns the largest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/>\n *\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}\n\n/>\n *\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/>\n *\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.min(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/>\n *\n * Returns the smallest element or `null` if there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.min(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min =

```

```

iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n     val e = iterator.next()\n     if (e.isNaN()) return e\n     if (min > e) min = e\n } return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>>\nSequence<T>.min(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min =\niterator.next()\n while (iterator.hasNext()) {\n     val e = iterator.next()\n     if (min > e) min = e\n }\n return\nmin\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no\n elements.\n *\n * The operation is _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.minBy\n *\npublic inline fun <T, R : Comparable<R>>\nSequence<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element\n having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The\n operation is _terminal_.\n */\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n    val\niterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext())\n {\n     val e = iterator.next()\n     if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.none\n *\npublic fun <T> Sequence<T>.none(): Boolean {\n    return\n!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The operation is\n _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun\n<T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n    for (element in this) if (predicate(element))\nreturn false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of\n the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n * @SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n    return\nmap {\n    action(it)\n    it\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying\n [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S>\nSequence<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext())\nthrow UnsupportedOperationException("Empty sequence can't be reduced.")\n    var accumulator: S =\niterator.next()\n while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from\n left to right\n * to current accumulator value and each element with its index in the original sequence.\n *\n * @param\n [operation] function that takes the index of an element, current accumulator value\n * and the element itself and\n calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if\n(!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n    var index =\n1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n        accumulator =\noperation(checkIndexOverflow(index++), accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator\n value and each element. Returns null if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n * @sample\nsamples.collections.Collections.Aggregates.reduceOrNull\n *\n * @SinceKotlin("1.3")\n * @ExperimentalStdlibApi\npublic inline fun <S, T : S>\nSequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n    val iterator = this.iterator()\n    if\n(!iterator.hasNext()) return null\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator, iterator.next())\n    }\n    return accumulator\n}\n\n/**\n * Returns a sequence\n containing successive accumulation values generated by applying [operation] from left to right\n * to each element\n and current accumulator value that starts with [initial] value.\n *\n * Note that `acc` value passed to [operation]

```

function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * The operation is `_intermediate_` and `_stateless_`.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {\n    return sequence {\n        yield(initial)\n        var accumulator = initial\n        for (element in this@scan) {\n            accumulator = operation(accumulator, element)\n            yield(accumulator)\n        }\n    }\n}
```

\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * The operation is `_intermediate_` and `_stateless_`.\n * \n * @sample samples.collections.Collections.Aggregates.scan

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n    return sequence {\n        yield(initial)\n        var index = 0\n        var accumulator = initial\n        for (element in this@scanIndexed) {\n            accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n            yield(accumulator)\n        }\n    }\n}
```

\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * The operation is `_intermediate_` and `_stateless_`.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S> Sequence<T>.scanReduce(operation: (acc: S, T) -> S): Sequence<S> {\n    return sequence {\n        val iterator = iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S = iterator.next()\n            yield(accumulator)\n            while (iterator.hasNext()) {\n                accumulator = operation(accumulator, iterator.next())\n                yield(accumulator)\n            }\n        }\n    }\n}
```

\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * The operation is `_intermediate_` and `_stateless_`.\n * \n * @sample samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <S, T : S> Sequence<T>.scanReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n    return sequence {\n        val iterator = iterator()\n        if (iterator.hasNext()) {\n            var accumulator: S = iterator.next()\n            yield(accumulator)\n            var index = 1\n            while (iterator.hasNext()) {\n                accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n                yield(accumulator)\n            }\n        }\n    }\n}
```

\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n * \n * The operation is `_terminal_`.\n * \n * public inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}

\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n * \n * The operation is `_terminal_`.\n * \n * public inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n}

```

}\n return sum}\n}\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n *\n * The operation is _intermediate_ and
_stateless_.\n *\npublic fun <T : Any> Sequence<T?.>.requireNonNulls(): Sequence<T> {\n return map { it ?:
throw IllegalArgumentException("`null element found in $this.`) }\n}\n}\n/**\n * Splits this sequence into a
sequence of lists each not exceeding the given [size].\n *\n * The last list in the resulting sequence may have less
elements than the given [size].\n *\n * @param size the number of elements to take in each list, must be positive
and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and
_stateful_.\n *\n * @sample samples.collections.Collections.Transformations.chunked\n
*\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n return
windowed(size, size, partialWindows = true)\n}\n}\n/**\n * Splits this sequence into several lists each not exceeding
the given [size]\n * and applies the given [transform] function to an each.\n *\n * @return sequence of results of the
[transform] applied to an each list.\n *\n * Note that the list passed to the [transform] function is ephemeral and is
valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a
snapshot of it.\n * The last list may have less elements than the given [size].\n *\n * @param size the number of
elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n
* The operation is _intermediate_ and _stateful_.\n *\n * @sample samples.text.Strings.chunkedTransform\n
*\n@SinceKotlin("1.2")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R):
Sequence<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n}\n}\n/**\n *
Returns a sequence containing all elements of the original sequence without the first occurrence of the given
[element].\n *\n * The operation is _intermediate_ and _stateless_.\n *\npublic operator fun <T>
Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator():
Iterator<T> {\n var removed = false\n return this@minus.filter { if (!removed && it == element) {\n
removed = true; false } else true }.iterator()\n }\n }\n}\n}\n/**\n * Returns a sequence containing all elements
of original sequence except the elements contained in the given [elements] array.\n *\n * Note that the source
sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting
sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The [elements]
array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct
and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The
operation is _intermediate_ and _stateful_.\n *\npublic operator fun <T> Sequence<T>.minus(elements: Array<out
T>): Sequence<T> {\n if (elements.isEmpty()) return this\n return object: Sequence<T> {\n override fun
iterator(): Iterator<T> {\n val other = elements.toHashSet()\n return this@minus.filterNot { it in other
}.iterator()\n }\n }\n}\n}\n/**\n * Returns a sequence containing all elements of original sequence except the
elements contained in the given [elements] collection.\n *\n * Note that the source sequence and the collection
being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of
them between successive calls to `iterator` may affect the result.\n *\n * The [elements] collection may be converted
to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable
implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is
_intermediate_ and _stateful_.\n *\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>):
Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other =
elements.convertToSetForSetOperation()\n if (other.isEmpty())\n return this@minus.iterator()\n else\n
return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n}\n}\n/**\n * Returns a sequence
containing all elements of original sequence except the elements contained in the given [elements] sequence.\n *\n
\n * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested
from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n
\n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n
\n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are
required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive
invocations.\n *\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n

```



```

{\n  return this}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is
_terminal_.\n *\n@kotlin.jvm.JvmName("averageOfByte")\npublic fun Sequence<Byte>.average(): Double {\n
var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Sequence<Short>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Sequence<Int>.average(): Double {\n  var sum: Double
= 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n    checkCountOverflow(++count)\n
  }\n  return if (count == 0) Double.NaN else sum / count}\n\n/**\n * Returns an average value of elements in the
sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("averageOfLong")\npublic fun
Sequence<Long>.average(): Double {\n  var sum: Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n
sum += element\n    checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum /
count}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfFloat")\npublic fun Sequence<Float>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count}\n\n/**\n * Returns
an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("averageOfDouble")\npublic fun Sequence<Double>.average(): Double {\n  var sum:
Double = 0.0\n  var count: Int = 0\n  for (element in this) {\n    sum += element\n
checkCountOverflow(++count)\n  }\n  return if (count == 0) Double.NaN else sum / count}\n\n/**\n * Returns
the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfByte")\npublic fun Sequence<Byte>.sum(): Int {\n  var sum: Int = 0\n  for
(element in this) {\n    sum += element\n  }\n  return sum}\n\n/**\n * Returns the sum of all elements in the
sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("sumOfShort")\npublic fun
Sequence<Short>.sum(): Int {\n  var sum: Int = 0\n  for (element in this) {\n    sum += element\n  }\n  return
sum}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfInt")\npublic fun Sequence<Int>.sum(): Int {\n  var sum: Int = 0\n  for
(element in this) {\n    sum += element\n  }\n  return sum}\n\n/**\n * Returns the sum of all elements in the
sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("sumOfLong")\npublic fun
Sequence<Long>.sum(): Long {\n  var sum: Long = 0L\n  for (element in this) {\n    sum += element\n  }\n
return sum}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfFloat")\npublic fun Sequence<Float>.sum(): Float {\n  var sum: Float = 0.0f\n
for (element in this) {\n    sum += element\n  }\n  return sum}\n\n/**\n * Returns the sum of all elements in
the sequence.\n *\n * The operation is _terminal_.\n *\n@kotlin.jvm.JvmName("sumOfDouble")\npublic fun
Sequence<Double>.sum(): Double {\n  var sum: Double = 0.0\n  for (element in this) {\n    sum += element\n
  }\n  return sum}\n\n"/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\n\npackage
kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original
set except the given [element].\n *\n * The returned set preserves the element iteration order of the original set.\n
*\n@public operator fun <T> Set<T>.minus(element: T): Set<T> {\n  val result =
LinkedHashSet<T>(mapCapacity(size))\n  var removed = false\n  return this.filterTo(result) { if (!removed && it

```



```

CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling
the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n  return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if
the [index] is out of bounds of this char sequence.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n *\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.elementAtOrNull(index: Int): Char? {\n  return this.getOrNull(index)\n}\n\n/**\n * Returns the first
character matching the given [predicate], or `null` if no such character was found.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n
return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no
such character was found.\n *\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate:
(Char) -> Boolean): Char? {\n  return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws
[NoSuchElementException] if the char sequence is empty.\n *\npublic fun CharSequence.first(): Char {\n  if
(isEmpty())\n    throw NoSuchElementException("Char sequence is empty.")\n  return this[0]\n}\n\n/**\n *
Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such
character is found.\n *\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n  for (element
in this) if (predicate(element)) return element\n  throw NoSuchElementException("Char sequence contains no
character matching the predicate.")\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is
empty.\n *\npublic fun CharSequence.firstOrNull(): Char? {\n  return if (isEmpty()) null else this[0]\n}\n\n/**\n *
Returns the first character matching the given [predicate], or `null` if character was not found.\n *\npublic inline fun
CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n  for (element in this) if (predicate(element))
return element\n  return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this char sequence.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrNull(index: Int, defaultValue: (Int) -> Char):
Char {\n  return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a
character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n *\npublic fun
CharSequence.getOrNull(index: Int): Char? {\n  return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does
not contain such character.\n *\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n
for (index in indices) {\n  if (predicate(this[index])) {\n    return index\n  }\n}\n  return -
1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does
not contain such character.\n *\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n
for (index in indices.reversed()) {\n  if (predicate(this[index])) {\n    return index\n  }\n}\n  return -
1\n}\n\n/**\n * Returns the last character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n
*\npublic fun CharSequence.last(): Char {\n  if (isEmpty())\n    throw NoSuchElementException("Char
sequence is empty.")\n  return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given
[predicate].\n * @throws [NoSuchElementException] if no such character is found.\n *\npublic inline fun
CharSequence.last(predicate: (Char) -> Boolean): Char {\n  for (index in this.indices.reversed()) {\n    val
element = this[index]\n    if (predicate(element)) return element\n  }\n  throw NoSuchElementException("Char
sequence contains no character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the
char sequence is empty.\n *\npublic fun CharSequence.lastOrNull(): Char? {\n  return if (isEmpty()) null else
this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such
character was found.\n *\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n  for (index
in this.indices.reversed()) {\n    val element = this[index]\n    if (predicate(element)) return element\n  }\n
return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws
NoSuchElementException if this char sequence is empty.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n

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return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified
source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n
*\n@SinceKotlin("1.3")\npublic fun CharSequence.random(random: Random): Char {\n    if (isEmpty())\n    throw NoSuchElementException("Char sequence is empty.")\n    return get(random.nextInt(length))\n}\n\n/**\n *
Returns a random character from this char sequence, or `null` if this char sequence is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.randomOrNull(): Char? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random
character from this char sequence using the specified source of randomness, or `null` if this char sequence is
empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun CharSequence.randomOrNull(random:
Random): Char? {\n    if (isEmpty())\n        return null\n    return get(random.nextInt(length))\n}\n\n/**\n * Returns
the single character, or throws an exception if the char sequence is empty or has more than one character.\n
*\npublic fun CharSequence.single(): Char {\n    return when (length) {\n        0 -> throw
NoSuchElementException("Char sequence is empty.")\n        1 -> this[0]\n        else -> throw
IllegalArgumentException("Char sequence has more than one element.")\n    }\n}\n\n/**\n * Returns the single
character matching the given [predicate], or throws exception if there is no or more than one matching character.\n
*\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n    var single: Char? = null\n    var
found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw
IllegalArgumentException("Char sequence contains more than one matching element.")\n            single =
element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException("Char sequence
contains no character matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as
Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n
*\npublic fun CharSequence.singleOrNull(): Char? {\n    return if (length == 1) this[0] else null\n}\n\n/**\n *
Returns the single character matching the given [predicate], or `null` if character was not found or more than one
character was found.\n *\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n
var single: Char? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n
            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return
single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n *\npublic fun
CharSequence.drop(n: Int): CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero."
}\n    return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters
removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.text.Strings.drop\n *\npublic fun String.drop(n: Int): String {\n    require(n >= 0) { "Requested character
count $n is less than zero." }\n    return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of
this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is
negative.\n * \n * @sample samples.text.Strings.drop\n *\npublic fun CharSequence.dropLast(n: Int):
CharSequence {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return take((length -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n *\npublic fun
String.dropLast(n: Int): String {\n    require(n >= 0) { "Requested character count $n is less than zero." }\n    return
take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all
characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n
*\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n    for (index in
lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    return
""\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n
*\n * @sample samples.text.Strings.drop\n *\npublic inline fun String.dropLastWhile(predicate: (Char) ->
Boolean): String {\n    for (index in lastIndex downTo 0)\n        if (!predicate(this[index]))\n            return
substring(0, index + 1)\n    return ""\n}\n\n/**\n * Returns a subsequence of this char sequence containing all
characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n

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*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].
* @sample samples.text.Strings.drop
*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 char sequence that
match the given [predicate].
*public inline fun CharSequence.filter(predicate: (Char) -> Boolean):
CharSequence {
    return filterTo(StringBuilder(), predicate)
}
* Returns a string containing only those
characters from the original string that match the given [predicate].
*public inline fun String.filter(predicate:
(Char) -> Boolean): String {
    return filterTo(StringBuilder(), predicate).toString()
}
* Returns a char
sequence containing only those characters from the original char sequence 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()
}
* Appends all characters
matching the given [predicate] to the given [destination].
* @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 <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 that do not match the given [predicate].
*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 not matching the given
[predicate] to the given [destination].
*public inline fun <C : Appendable>
CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {
    for (element in this)
        if (!predicate(element))
            destination.append(element)
    return destination
}
* Appends all characters
matching the given [predicate] to the given [destination].
*public inline fun <C : Appendable>
CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {
    for (index in 0 until length) {
        val
element = get(index)
        if (predicate(element))
            destination.append(element)
    }
    return
destination
}
* Returns a char sequence containing characters of the original char sequence at the
specified range of [indices].
*public fun CharSequence.slice(indices: IntRange): CharSequence {
    if
(indices.isEmpty())
        return ""
    return subSequence(indices)
}
* Returns a string containing characters
of the original string at the specified range of [indices].
*public fun String.slice(indices: IntRange): String {
    if
(indices.isEmpty())
        return ""
    return substring(indices)
}
* Returns a char sequence containing
characters of the original char sequence at specified [indices].
*public fun CharSequence.slice(indices:
Iterable<Int>): CharSequence {
    val size = indices.collectionSizeOrDefault(10)
    if (size == 0)
        return ""
    val result = StringBuilder(size)
    for (i in indices) {
        result.append(get(i))
    }
    return result
}
* Returns a string containing characters of the original string at specified [indices].
*public @kotlin.internal.InlineOnly fun String.slice(indices: Iterable<Int>): String {
    return (this as
CharSequence).slice(indices).toString()
}
* Returns a subsequence of this char sequence containing the
first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.
* @throws IllegalArgumentException if [n] is negative.
* @sample samples.text.Strings.take
*public fun
CharSequence.take(n: Int): CharSequence {
    require(n >= 0) { "Requested character count $n is less than zero."
}
}

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}n return subSequence(0, n.coerceAtMost(length))n}n/n/**n * Returns a string containing the first [n]
characters from this string, or the entire string if this string is shorter.n * n * @throws IllegalArgumentException if
[n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun String.take(n: Int): String {n require(n
>= 0) { \"Requested character count $n is less than zero.\" }n return substring(0,
n.coerceAtMost(length))n}n/n/**n * Returns a subsequence of this char sequence containing the last [n]
characters from this char sequence, or the entire char sequence if this char sequence is shorter.n * n * @throws
IllegalArgumentException if [n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun
CharSequence.takeLast(n: Int): CharSequence {n require(n >= 0) { \"Requested character count $n is less than
zero.\" }n val length = lengthn return subSequence(length - n.coerceAtMost(length), length)n}n/n/**n *
Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.n * n *
@throws IllegalArgumentException if [n] is negative.n * n * @sample samples.text.Strings.take\n */npublic fun
String.takeLast(n: Int): String {n require(n >= 0) { \"Requested character count $n is less than zero.\" }n val
length = lengthn return substring(length - n.coerceAtMost(length))n}n/n/**n * Returns a subsequence of this
char sequence containing last characters that satisfy the given [predicate].n * n * @sample
samples.text.Strings.take\n */npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence {n for (index in lastIndex downTo 0) {n if (!predicate(this[index])) {n return
subSequence(index + 1, length)n }n }n return subSequence(0, length)n}n/n/**n * Returns a string
containing last characters that satisfy the given [predicate].n * n * @sample samples.text.Strings.take\n */npublic
inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {n for (index in lastIndex downTo 0) {n
if (!predicate(this[index])) {n return substring(index + 1)n }n }n return this\n}n/n/**n * Returns
a subsequence of this char sequence containing the first characters that satisfy the given [predicate].n * n *
@sample samples.text.Strings.take\n */npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean):
CharSequence {n for (index in 0 until length)n if (!predicate(get(index))) {n return subSequence(0,
index)n }n return subSequence(0, length)n}n/n/**n * Returns a string containing the first characters that
satisfy the given [predicate].n * n * @sample samples.text.Strings.take\n */npublic inline fun
String.takeWhile(predicate: (Char) -> Boolean): String {n for (index in 0 until length)n if
(!predicate(get(index))) {n return substring(0, index)n }n return this\n}n/n/**n * Returns a char
sequence with characters in reversed order.n */npublic fun CharSequence.reversed(): CharSequence {n return
StringBuilder(this).reverse()\n}n/n/**n * Returns a string with characters in reversed order.n
*/n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {n return (this as
CharSequence).reversed().toString()\n}n/n/**n * Returns a [Map] containing key-value pairs provided by
[transform] function\n * applied to characters of the given char sequence.n * n * If any of two pairs would have the
same key the last one gets added to the map.n * n * The returned map preserves the entry iteration order of the
original char sequence.n * n * @sample samples.text.Strings.associate\n */npublic inline fun <K, V>
CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {n val capacity =
mapCapacity(length).coerceAtLeast(16)n return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}n/n/**n * Returns a [Map] containing the characters from the given char sequence indexed by the
key\n * returned from [keySelector] function applied to each character.n * n * If any two characters would have the
same key returned by [keySelector] the last one gets added to the map.n * n * The returned map preserves the entry
iteration order of the original char sequence.n * n * @sample samples.text.Strings.associateBy\n */npublic inline
fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {n val capacity =
mapCapacity(length).coerceAtLeast(16)n return associateByTo(LinkedHashMap<K, Char>(capacity),
keySelector)\n}n/n/**n * Returns a [Map] containing the values provided by [valueTransform] and indexed by
[keySelector] functions applied to characters of the given char sequence.n * n * If any two characters would have
the same key returned by [keySelector] the last one gets added to the map.n * n * The returned map preserves the
entry iteration order of the original char sequence.n * n * @sample
samples.text.Strings.associateByWithValueTransform\n */npublic inline fun <K, V>
CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {n val capacity

```

```

= mapCapacity(length).coerceAtLeast(16)\n  return associateByTo(LinkedHashMap<K, V>(capacity),
keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n
* and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector]
the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n *\npublic inline fun <K,
M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n
for (element in this) {\n  destination.put(keySelector(element), element)\n } \n return destination\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the
[keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the
given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one
gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n *\npublic
inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char)
-> K, valueTransform: (Char) -> V): M {\n  for (element in this) {\n  destination.put(keySelector(element),
valueTransform(element))\n } \n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each character of the given char
sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample
samples.text.Strings.associateTo\n *\npublic inline fun <K, V, M : MutableMap<in K, in V>>
CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n  for (element in this) {\n
destination += transform(element)\n } \n return destination\n}\n\n/**\n * Returns a [Map] where keys are
characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each
character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original char sequence.\n * \n * @sample
samples.text.Strings.associateWith\n *\n@SinceKotlin("1.3")\npublic inline fun <V>
CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n  val result = LinkedHashMap<Char,
V>(mapCapacity(length).coerceAtLeast(16))\n  return associateWithTo(result, valueSelector)\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs for each character of the given char
sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that
key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.text.Strings.associateWithTo\n *\n@SinceKotlin("1.3")\npublic inline fun <V, M : MutableMap<in Char,
in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n  for (element in this)
{\n  destination.put(element, valueSelector(element))\n } \n return destination\n}\n\n/**\n * Appends all
characters to the given [destination] collection.\n *\npublic fun <C : MutableCollection<in Char>>
CharSequence.toCollection(destination: C): C {\n  for (item in this) {\n  destination.add(item)\n } \n return
destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n *\npublic fun CharSequence.toHashSet():
HashSet<Char> {\n  return toCollection(HashSet<Char>(mapCapacity(length)))\n}\n\n/**\n * Returns a [List]
containing all characters.\n *\npublic fun CharSequence.toList(): List<Char> {\n  return when (length) {\n  0 -
> emptyList()\n  1 -> listOf(this[0])\n  else -> this.toMutableList()\n } \n}\n\n/**\n * Returns a
[MutableList] filled with all characters of this char sequence.\n *\npublic fun CharSequence.toMutableList():
MutableList<Char> {\n  return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all
characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n *\npublic
fun CharSequence.toSet(): Set<Char> {\n  return when (length) {\n  0 -> emptySet()\n  1 -> setOf(this[0])\n
else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))\n } \n}\n\n/**\n * Returns a single list of all
elements yielded from results of [transform] function being invoked on each character of original char sequence.\n
*\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic inline fun <R>
CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
character of original char sequence, to the given [destination].\n *\npublic inline fun <R, C : MutableCollection<in
R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n  for (element in this) {\n

```

```

    val list = transform(element)\n    destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The
returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n *
@sample samples.collections.Collections.Transformations.groupBy\n * \n\npublic inline fun <K>
CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each character of the original char sequence\n * by the key returned by the
given [keySelector] function applied to the character\n * and returns a map where each group key is associated with
a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n\npublic inline fun <K, V>
CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n    return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups
characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each
character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n
* @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *
\n\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M,
keySelector: (Char) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<Char>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n *
Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n *
by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map
each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n *
@sample samples.collections.Collections.Transformations.groupByKeysAndValues\n * \n\npublic inline fun <K, V,
M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K,
valueTransform: (Char) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list =
destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return
destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-
fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample
samples.collections.Grouping.groupingByEachCount\n * \n\n@SinceKotlin("1.1")\n\npublic inline fun <K>
CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n    return object :
Grouping<Char, K> {\n        override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n
        override fun keyOf(element: Char): K = keySelector(element)\n    }\n}\n\n/**\n * Returns a list containing the
results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n *
@sample samples.text.Strings.map\n * \n\npublic inline fun <R> CharSequence.map(transform: (Char) -> R):
List<R> {\n    return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each character and its index in the original char sequence.\n *
@param [transform] function that takes the index of a character and the character itself\n * and returns the result of
the transform applied to the character.\n * \n\npublic inline fun <R> CharSequence.mapIndexed(transform: (index:
Int, Char) -> R): List<R> {\n    return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list
containing only the non-null results of applying the given [transform] function\n * to each character and its index in
the original char sequence.\n * @param [transform] function that takes the index of a character and the character
itself\n * and returns the result of the transform applied to the character.\n * \n\npublic inline fun <R : Any>
CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n    return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each
character and its index in the original char sequence\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and
returns the result of the transform applied to the character.\n * \n\npublic inline fun <R : Any, C :

```

```

MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) ->
R?): C {\n  forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n  return
destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char
sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the
index of a character and the character itself\n * and returns the result of the transform applied to the character.\n
*/\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform:
(index: Int, Char) -> R): C {\n  var index = 0\n  for (item in this)\n    destination.add(transform(index++,
item))\n  return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given
[transform] function\n * to each character in the original char sequence.\n */\npublic inline fun <R : Any>
CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n  return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n *
and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C :
MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n  forEach
{ element -> transform(element)?.let { destination.add(it) } }\n  return destination\n}\n\n/**\n * Applies the given
[transform] function to each character of the original char sequence\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C,
transform: (Char) -> R): C {\n  for (item in this)\n    destination.add(transform(item))\n  return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an
[IndexValue] containing the index of that character and the character itself.\n */\npublic fun
CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n  return IndexingIterable { iterator() }\n}\n\n/**\n *
Returns `true` if all characters match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) ->
Boolean): Boolean {\n  for (element in this) if (!predicate(element)) return false\n  return true\n}\n\n/**\n *
Returns `true` if char sequence has at least one character.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n */\npublic inline fun CharSequence.any(): Boolean {\n  return
!isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate:
(Char) -> Boolean): Boolean {\n  for (element in this) if (predicate(element)) return true\n  return
false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.count(): Int {\n  return length\n}\n\n/**\n * Returns the number of characters matching the given
[predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n  var count = 0\n
for (element in this) if (predicate(element)) ++count\n  return count\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from left to right to current accumulator value and each character.\n
*/\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n  var accumulator =
initial\n  for (element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each character with its index in the original char sequence.\n * @param [operation] function that takes the
index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator
value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R):
R {\n  var index = 0\n  var accumulator = initial\n  for (element in this) accumulator = operation(index++,
accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun <R>
CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param
[operation] function that takes the index of a character, the character itself\n * and current accumulator value, and
calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R,

```

```

operation: (index: Int, Char, acc: R) -> R: R { \n  var index = lastIndex\n  var accumulator = initial\n  while
(index >= 0) { \n    accumulator = operation(index, get(index), accumulator)\n    --index\n  }\n  return
accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n */\npublic inline fun
CharSequence.forEach(action: (Char) -> Unit): Unit { \n  for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each character, providing sequential index with the character.\n * @param [action]
function that takes the index of a character and the character itself\n * and performs the desired action on the
character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit { \n  var
index = 0\n  for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest character or `null` if there are
no characters.\n */\npublic fun CharSequence.max(): Char? { \n  if (isEmpty()) return null\n  var max = this[0]\n  for (i in 1..lastIndex) { \n    val e = this[i]\n    if (max < e) max = e\n  }\n  return max\n}\n\n/**\n * Returns
the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n *
@sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharSequence.maxBy(selector: (Char) -> R): Char? { \n  if (isEmpty()) return null\n  var maxElem = this[0]\n  val
lastIndex = this.lastIndex\n  if (lastIndex == 0) return maxElem\n  var maxValue = selector(maxElem)\n  for
(i in 1..lastIndex) { \n    val e = this[i]\n    val v = selector(e)\n    if (maxValue < v) { \n      maxElem = e\n
      maxValue = v\n    }\n  }\n  return maxElem\n}\n\n/**\n * Returns the first character having the largest
value according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun
CharSequence.maxWith(comparator: Comparator<in Char>): Char? { \n  if (isEmpty()) return null\n  var max =
this[0]\n  for (i in 1..lastIndex) { \n    val e = this[i]\n    if (comparator.compare(max, e) < 0) max = e\n  }\n
return max\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\npublic fun
CharSequence.min(): Char? { \n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) { \n
val e = this[i]\n  if (min > e) min = e\n }\n  return min\n}\n\n/**\n * Returns the first character yielding the
smallest value of the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>>
CharSequence.minBy(selector: (Char) -> R): Char? { \n  if (isEmpty()) return null\n  var minElem = this[0]\n  val
lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue = selector(minElem)\n  for (i in
1..lastIndex) { \n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v) { \n      minElem = e\n
      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first character having the smallest value
according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun
CharSequence.minWith(comparator: Comparator<in Char>): Char? { \n  if (isEmpty()) return null\n  var min =
this[0]\n  for (i in 1..lastIndex) { \n    val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n
return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean { \n  return
isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun
CharSequence.none(predicate: (Char) -> Boolean): Boolean { \n  for (element in this) if (predicate(element)) return
false\n  return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself
afterwards.\n */\n@SinceKotlin("1.1")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S
{ \n  return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first
character and applying [operation] from left to right to current accumulator value and each character.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun
CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char { \n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty char sequence can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) { \n    accumulator = operation(accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to
right\n * to current accumulator value and each character with its index in the original char sequence.\n * @param
[operation] function that takes the index of a character, current accumulator value\n * and the character itself and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n

```



```

*public inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {
    if (isEmpty())
        throw UnsupportedOperationException("Empty char sequence 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 character and applying [operation] from left to right to current accumulator value and each character. Returns null if the char sequence is empty.

```

@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {
    if (isEmpty())
        return null
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}

```

* Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value.

```

public inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {
    var index = lastIndex
    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
}

```

* 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.

```

public inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {
    var index = lastIndex
    if (index < 0)
        throw UnsupportedOperationException("Empty char sequence can't be reduced.")
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(index, get(index), accumulator)
    }
    return accumulator
}

```

* Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value. Returns null if the char sequence is empty.

```

@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {
    var index = lastIndex
    if (index < 0)
        return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character and current accumulator value that starts with [initial] value.

```

@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun <R> CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

```

@SinceKotlin("1.3")@ExperimentalStdlibApi
public inline fun <R> CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
    if (isEmpty())
        return listOf(initial)
    val result = ArrayList<R>(length + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

* Returns a list containing successive accumulation

values generated by applying [operation] from left to right to each character and current accumulator value that starts with the first character of this char sequence. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scanReduce

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharSequence.scanReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence. Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list. @param [operation] function that takes the index of a character, current accumulator value and the character itself, and calculates the next accumulator value. @sample samples.collections.Collections.Aggregates.scanReduce
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic inline fun CharSequence.scanReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<Char>(length).apply { add(accumulator) }\n    for (index in 1 until length) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence. \n *\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n    var sum: Int = 0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence. \n *\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size]. \n *\n * The last string in the resulting list may have less characters than the given [size]. \n *\n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence. \n *\n * @sample samples.collections.Collections.Transformations.chunked
```

```
*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunked(size: Int): List<String> {\n    return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each. \n *\n * @return list of results of the [transform] applied to an each char sequence. \n *\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. \n *\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it. \n *\n * The last char sequence may have less characters than the given [size]. \n *\n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence. \n *\n * @sample samples.text.Strings.chunkedTransform
```

```
*\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n    return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size]. \n *\n * The last string in the resulting sequence may have less characters than the given [size]. \n *\n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence. \n *\n * @sample samples.collections.Collections.Transformations.chunked
```

```
*\n@SinceKotlin("1.2")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n    return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size] and applies the given [transform] function to an each. \n *\n * @return sequence of results of the [transform] applied to an each char sequence. \n *\n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. \n *\n * You should not store it or allow it to escape in some way, unless you made a
```

snapshot of it.

The last char sequence may have less characters than the given [size].

@param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.

@sample samples.text.Strings.chunkedTransformToSequence

```

*^@SinceKotlin("1.2")
public fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -
> R): Sequence<R> {
    return windowedSequence(size, size, partialWindows = true, transform =
transform)
}

```

Splits the original char sequence into pair of char sequences, where *first* char sequence contains characters for which [predicate] yielded `true`, while *second* char sequence contains characters for which [predicate] yielded `false`.

```

public inline fun CharSequence.partition(predicate: (Char) ->
Boolean): Pair<CharSequence, CharSequence> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first, second)
}

```

Splits the original string into pair of strings, where *first* string contains characters for which [predicate] yielded `true`, while *second* string contains characters for which [predicate] yielded `false`.

```

public inline fun String.partition(predicate: (Char) ->
Boolean): Pair<String, String> {
    val first = StringBuilder()
    val second = StringBuilder()
    for (element in this) {
        if (predicate(element)) {
            first.append(element)
        } else {
            second.append(element)
        }
    }
    return Pair(first.toString(), second.toString())
}

```

Returns a list of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.

Several last strings may have less characters than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.takeWindows

```

*^@SinceKotlin("1.2")
public fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {
    return windowed(size, step, partialWindows) { it.toString() }
}

```

Returns a list of results of applying the given [transform] function to an each char sequence representing a view over the window of the given [size] sliding along this char sequence with the given [step].

Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it.

Several last char sequences may have less characters than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.averageWindows

```

*^@SinceKotlin("1.2")
public fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows:
Boolean = false, transform: (CharSequence) -> R): List<R> {
    checkWindowSizeStep(size, step)
    val thisSize = this.length
    val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
    val result = ArrayList<R>(resultCapacity)
    var index = 0
    while (index in 0 until thisSize) {
        val end = index + size
        val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end
        result.add(transform(subSequence(index, coercedEnd)))
        index += step
    }
    return result
}

```

Returns a sequence of snapshots of the window of the given [size] sliding along this char sequence with the given [step], where each snapshot is a string.

Several last strings may have less characters than the given [size].

Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample samples.collections.Sequences.Transformations.takeWindows

```

*^@SinceKotlin("1.2")
public fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows:

```



```

    else\n        endIndex -= 1\n    }\n    }\n    return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun\nString.trim(predicate: (Char) -> Boolean): String =\n    (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n    for (index in\n        this.indices)\n        if (!predicate(this[index]))\n            return subSequence(index, length)\n    }\n    return\n        \"\"\n}\n\n/**\n * Returns a string having leading characters matching the [predicate] removed.\n */\npublic inline\nfun String.trimStart(predicate: (Char) -> Boolean): String =\n    (this as\n        CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having\n        trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimEnd(predicate:\n        (Char) -> Boolean): CharSequence {\n    for (index in this.indices.reversed())\n        if (!predicate(this[index]))\n            return subSequence(0, index + 1)\n    }\n    return \"\"\n}\n\n/**\n * Returns a string having trailing characters\n        matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n    (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence\n        having leading and trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trim(vararg\n        chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters\n        from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char): String = trim { it in chars\n        }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array\n        removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars\n        }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun\nString.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char\n        sequence having trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg\n        chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the\n        [chars] array removed.\n */\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun\nCharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and\n        trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as\n        CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace\n        removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun\nString.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this\n        char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =\n        trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as\n        CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at\n        the beginning\n * to the specified [length] with the specified character or space.\n * @param length the desired\n        string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.\n        Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char\n        sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample\n        samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):\n        CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException(\"Desired length $length is less than\n            zero.\")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n    }\n    val sb =\n        StringBuilder(length)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    sb.append(this)\n    return\n        sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less\n        than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]\n        consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample\n        samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n    (\n
```

```

(this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this
char sequence padded at the end\n * to the specified [length] with the specified character or space.\n *\n * @param
length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char
= ' '): CharSequence {\n    if (length < 0)\n        throw IllegalArgumentException("Desired length $length is less
than zero.")\n    if (length <= this.length)\n        return this.subSequence(0, this.length)\n    val sb =
StringBuilder(length)\n    sb.append(this)\n    for (i in 1..(length - this.length))\n        sb.append(padChar)\n    return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *\n *
@param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n *
@sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n(this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is
either `null` or empty.\n *\n * @sample samples.text.Strings.stringOrNullEmpty\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n *\n * @sample
samples.text.Strings.stringIsEmpty\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun CharSequence.isEmpty():
Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n *\n * @sample
samples.text.Strings.stringIsNotEmpty\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun
CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//\npublic fun
String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence
is not empty and contains some characters except of whitespace characters.\n *\n * @sample
samples.text.Strings.stringIsNotBlank\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun
CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either
`null` or empty or consists solely of whitespace characters.\n *\n * @sample
samples.text.Strings.stringOrNullBlank\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun
CharSequence?.isNullOrBlank(): Boolean {\n    contract {\n        returns(false) implies (this@isNullOrBlank !=
null)\n    }\n    return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n */\n\n/**\n * @public operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n    private var index = 0\n\n    public override fun nextChar(): Char = get(index++)\n    public override fun hasNext(): Boolean = index <
length\n}\n\n/**\n * Returns the string if it is not `null`, or the empty string otherwise.\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n/**\n * Returns this
char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample samples.text.Strings.stringIfEmpty\n */\n\n/**\n * @kotlin("1.3")\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : CharSequence, C : R =\n    if (isEmpty()) defaultValue() else this\n\n/**\n * Returns this char
sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling
[defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n */\n\n/**\n * @kotlin("1.3")\n */\n\n/**\n * @kotlin.internal.InlineOnly\n */\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n    if (isBlank()) defaultValue() else this\n\n/**\n * Returns the range of valid
character indices for this char sequence.\n */\n\n/**\n * @public val CharSequence.indices: IntRange\n */\n    get() = 0..length -
1\n\n/**\n * Returns the index of the last character in the char sequence or -1 if it is empty.\n */\n\n/**\n * @public val
CharSequence.lastIndex: Int\n */\n    get() = this.length - 1\n\n/**\n * Returns `true` if this CharSequence has Unicode
surrogate pair at the specified [index].\n */\n\n/**\n * @public fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n    return index in 0..length - 2\n        && this[index].isHighSurrogate()\n        && this[index +

```

```

1].isLowSurrogate()\n}\n\n/**\n * Returns a substring specified by the given [range] of indices.\n *\npublic fun
String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a
subsequence of this char sequence specified by the given [range] of indices.\n *\npublic fun
CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive +
1)\n\n/**\n * Returns a subsequence of this char sequence.\n *\n * This extension is chosen only for invocation with
old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n
*\n@kotlin.internal.InlineOnly\n@Suppress("\u0027EXTENSION_SHADOWED_BY_MEMBER\u0027") // false
warning\n@Deprecated("Use parameters named startIndex and endIndex.\u0027", ReplaceWith("\u0027subSequence(startIndex
= start, endIndex = end)\u0027"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence =
subSequence(start, end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the
[startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n *
@param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length):
String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the
specified [range] of this char sequence.\n *\npublic fun CharSequence.substring(range: IntRange): String =
subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first
occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which
defaults to the original string.\n *\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue:
String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
substring(0, index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic fun
String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n    val index =
indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns
a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringAfter(delimiter:
Char, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1)
missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first occurrence
of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n *\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this):
String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n *\npublic
fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n    val index =
lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n *
Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n *\npublic fun String.substringBeforeLast(delimiter:
String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index ==
-1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of
[delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the
original string.\n *\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this):
String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the
string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n
*\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n    val
index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at
the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first
character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the

```

```

string.\n *\n@UseExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.replaceRange(startIndex:
Int, endIndex: Int, replacement: CharSequence): CharSequence {\n if (endIndex < startIndex)\n throw
IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n val sb =
StringBuilder()\n sb.appendRange(this, 0, startIndex)\n sb.append(replacement)\n sb.appendRange(this,
endIndex, length)\n return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the
[replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param
endIndex the index of the first character after the replacement to keep in the string.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement:
CharSequence): String =\n (this as CharSequence).replaceRange(startIndex, endIndex,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given [range]\n * is replaced with the [replacement] char sequence.\n * \n * The end index of the [range] is included
in the part to be replaced.\n *\npublic fun CharSequence.replaceRange(range: IntRange, replacement:
CharSequence): CharSequence =\n replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n *
Replace the part of string at the given [range] with the [replacement] string.\n * \n * The end index of the [range] is
included in the part to be replaced.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range:
IntRange, replacement: CharSequence): String =\n (this as CharSequence).replaceRange(range,
replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given range is removed.\n * \n * @param startIndex the index of the first character to be removed.\n * @param
endIndex the index of the first character after the removed part to keep in the string.\n * \n * [endIndex] is not
included in the removed part.\n *\n@UseExperimental(ExperimentalStdlibApi::class)\npublic fun
CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\n if (endIndex < startIndex)\n
throw IndexOutOfBoundsException("End index ($endIndex) is less than start index ($startIndex).")\n if
(endIndex == startIndex)\n return this.subSequence(0, length)\n val sb = StringBuilder(length - (endIndex -
startIndex))\n sb.appendRange(this, 0, startIndex)\n sb.appendRange(this, endIndex, length)\n return
sb\n}\n\n/**\n * Removes the part of a string at a given range.\n * @param startIndex the index of the first character
to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n
*\n * [endIndex] is not included in the removed part.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
String.removeRange(startIndex: Int, endIndex: Int): String =\n (this as CharSequence).removeRange(startIndex,
endIndex).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the
given [range] is removed.\n * \n * The end index of the [range] is included in the removed part.\n *\npublic fun
CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive +
1)\n\n/**\n * Removes the part of a string at the given [range].\n * \n * The end index of the [range] is included in
the removed part.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String
=\n (this as CharSequence).removeRange(range).toString()\n\n/**\n * If this char sequence starts with the given
[prefix], returns a new char sequence\n * with the prefix removed. Otherwise, returns a new char sequence with the
same characters.\n *\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n if
(startsWith(prefix)) {\n return subSequence(prefix.length, length)\n }\n return subSequence(0,
length)\n}\n\n/**\n * If this string starts with the given [prefix], returns a copy of this string\n * with the prefix
removed. Otherwise, returns this string.\n *\npublic fun String.removePrefix(prefix: CharSequence): String {\n if
(startsWith(prefix)) {\n return substring(prefix.length)\n }\n return this\n}\n\n/**\n * If this char sequence
ends with the given [suffix], returns a new char sequence\n * with the suffix removed. Otherwise, returns a new char
sequence with the same characters.\n *\npublic fun CharSequence.removeSuffix(suffix: CharSequence):
CharSequence {\n if (endsWith(suffix)) {\n return subSequence(0, length - suffix.length)\n }\n return
subSequence(0, length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n *
with the suffix removed. Otherwise, returns this string.\n *\npublic fun String.removeSuffix(suffix: CharSequence):
String {\n if (endsWith(suffix)) {\n return substring(0, length - suffix.length)\n }\n return this\n}\n\n/**\n
* When this char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char
sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the

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same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence):
CharSequence {\n    if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n
        return subSequence(prefix.length, length - suffix.length)\n    }\n    return subSequence(0, length)\n}\n\n/**\n *
Removes from a string both the given [prefix] and [suffix] if and only if\n * it starts with the [prefix] and ends with
the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun String.removeSurrounding(prefix:
CharSequence, suffix: CharSequence): String {\n    if ((length >= prefix.length + suffix.length) &&
startsWith(prefix) && endsWith(suffix)) {\n        return substring(prefix.length, length - suffix.length)\n    }\n
return this\n}\n\n/**\n * When this char sequence starts with and ends with the given [delimiter],\n * returns a new
char sequence having this [delimiter] removed both from the start and end.\n * Otherwise returns a new char
sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence):
CharSequence = removeSurrounding(delimiter, delimiter)\n\n/**\n * Removes the given [delimiter] string from both
the start and the end of this string\n * if and only if it starts with and ends with the [delimiter].\n * Otherwise returns
this string unchanged.\n */\npublic fun String.removeSurrounding(delimiter: CharSequence): String =
removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: Char,
replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if
(index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string
before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the
delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val
index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index,
replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement]
string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original
string.\n */\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String =
this): String {\n    val index = indexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else
replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: String,
replacement: String, missingDelimiterValue: String = this): String {\n    val index = indexOf(delimiter)\n    return if
(index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n *
Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n    val
index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(index +
delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter:
Char, replacement: String, missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n *
Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string
does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic
fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n
    val index = lastIndexOf(delimiter)\n    return if (index == -1) missingDelimiterValue else replaceRange(0, index,
replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults
to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String,
missingDelimiterValue: String = this): String {\n    val index = lastIndexOf(delimiter)\n    return if (index == -1)

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missingDelimiterValue else replaceRange(0, index, replacement)\n\n\n// public fun String.replace(oldChar: Char,
newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String,
newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by
replacing each substring of this char sequence that matches the given regular expression\n * with the given
[replacement].\n *\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat
the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n
*\n * @kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String
= regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char
sequence that matches the given regular expression\n * with the result of the given function [transform] that takes
[MatchResult] and returns a string to be used as a\n * replacement for that match.\n
*\n * @kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform:
(MatchResult) -> CharSequence): String =\n    regex.replace(this, transform)\n\n/**\n * Replaces the first
occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n
*\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for
details.\n *\n * @kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement:
String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns `true` if this char sequence matches the
given regular expression.\n *\n * @kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex:
Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n *
Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\n
*\n * @internal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int,
ignoreCase: Boolean): Boolean {\n    if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) ||
(otherOffset > other.length - length)) {\n        return false\n    }\n    for (index in 0 until length) {\n        if
(!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n            return false\n    }\n    return
true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified character.\n *\n * @public fun
CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*\n * @public fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n    this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n *\n * @public fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n
if (!ignoreCase && this is String && prefix is String)\n    return this.startsWith(prefix)\n else\n    return
regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char
sequence starting at the specified offset [startIndex] starts with the specified prefix.\n *\n * @public fun
CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if
(!ignoreCase && this is String && prefix is String)\n        return this.startsWith(prefix, startIndex)\n    else\n
return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char
sequence ends with the specified suffix.\n *\n * @public fun CharSequence.endsWith(suffix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase && this is String && suffix is String)\n        return
this.endsWith(suffix)\n    else\n        return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char
sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this
and [other] have no common prefix, returns the empty string.\n *\n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n *\n * @sample samples.text.Strings.commonPrefixWith\n
*\n * @public fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n
val shortestLength = minOf(this.length, other.length)\n    var i = 0\n    while (i < shortestLength &&
this[i].equals(other[i], ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0, i).toString()\n}\n\n/**\n * Returns the
longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n\n

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@param ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @sample
 samples.text.Strings.commonSuffixWith
 * /public fun CharSequence.commonSuffixWith(other: CharSequence,
 ignoreCase: Boolean = false): String {
 val thisLength = this.length
 val otherLength = other.length
 val shortestLength = minOf(thisLength, otherLength)
 var i = 0
 while (i < shortestLength && this[thisLength -
 i - 1].equals(other[otherLength - i - 1], ignoreCase)) {
 i++
 }
 if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {
 i--
 }
 return subSequence(thisLength - i, thisLength).toString()
 }
 // indexOfAny()
 * Finds the index of the
 first occurrence of any of the specified [chars] 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 character from [chars] or -1 if none of
 [chars] are found.
 * /public fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase:
 Boolean = false): Int {
 if (!ignoreCase && chars.size == 1 && this is String) {
 val char = chars.single()
 return nativeIndexOf(char, startIndex)
 }
 for (index in startIndex.coerceAtLeast(0)..lastIndex) {
 val charAtIndex = get(index)
 if (chars.any { it.equals(charAtIndex, ignoreCase) })
 return index
 }
 return -1
 }
 * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,
 * starting from the specified [startIndex] and optionally ignoring the case.
 * @param startIndex The index of
 character to start searching at. The search proceeds backward toward the beginning of the string.
 * @param
 ignoreCase `true` to ignore character case when matching a character. By default `false`.
 * @return An index of
 the last occurrence of matched character from [chars] or -1 if none of [chars] are found.
 * /public fun
 CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
 if (!ignoreCase && chars.size == 1 && this is String) {
 val char = chars.single()
 return
 nativeLastIndexOf(char, startIndex)
 }
 for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {
 val charAtIndex = get(index)
 if (chars.any { it.equals(charAtIndex, ignoreCase) })
 return index
 }
 return -1
 }
 private fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int,
 ignoreCase: Boolean, last: Boolean = false): Int {
 val indices = if (!last)
 startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)
 else
 startIndex.coerceAtMost(lastIndex)
 downTo endIndex.coerceAtLeast(0)
 if (this is String && other is String) { // smart cast
 for (index in
 indices) {
 if (other.regionMatches(0, this, index, other.length, ignoreCase))
 return index
 }
 } else {
 for (index in indices) {
 if (other.regionMatchesImpl(0, this, index, other.length,
 ignoreCase))
 return index
 }
 }
 return -1
 }
 private fun CharSequence.findAnyOf(strings:
 Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {
 if (!ignoreCase
 && strings.size == 1) {
 val string = strings.single()
 val index = if (!last) indexOf(string, startIndex) else
 lastIndexOf(string, startIndex)
 return if (index < 0) null else index to string
 }
 val indices = if (!last)
 startIndex.coerceAtLeast(0)..length else
 startIndex.coerceAtMost(lastIndex) downTo 0
 if (this is String) {
 for (index in indices) {
 val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length,
 ignoreCase) }
 if (matchingString != null)
 return index to matchingString
 }
 } else {
 for (index in indices) {
 val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index,
 it.length, ignoreCase) }
 if (matchingString != null)
 return index to matchingString
 }
 }
 return null
 }
 * 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 string. By default `false`.
 * @return A pair of an index of the first occurrence of
 matched string from [strings] and the string matched
 * or `null` if none of [strings] are found.
 * To avoid
 ambiguous results when strings in [strings] 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.
 * /public fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0,
 ignoreCase: Boolean = false): Pair<Int, String>? =
 findAnyOf(strings, startIndex, ignoreCase, last =
 false)
 * Finds the last occurrence of any of the specified [strings] in this char sequence,
 * starting from
 the specified [startIndex] and optionally ignoring the case.
 * @param startIndex The index of character to start

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searching at. The search proceeds backward toward the beginning of the string.

`CharSequence.findLastAnyOf`: `Pair<Int, String>? = findAnyOf(strings, startIndex, ignoreCase, last = true)`

`CharSequence.findAnyOf`: `Int = findAnyOf(strings, startIndex, ignoreCase, last = false).first ?: -1`

`CharSequence.indexOfAny`: `Int = indexOfAny(strings, startIndex, ignoreCase, last = true).first ?: -1`

`CharSequence.indexOfAny`: `Int = indexOfAny(strings, startIndex, ignoreCase, last = false).first ?: -1`

`CharSequence.indexOf`: `Int = indexOf(char, startIndex, ignoreCase)`

`CharSequence.indexOf`: `Int = indexOf(string, startIndex, length, ignoreCase)`

`CharSequence.lastIndexOf`: `Int = indexOf(char, startIndex, ignoreCase, last = true)`

`CharSequence.lastIndexOf`: `Int = indexOf(string, startIndex, ignoreCase, last = true)`

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startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as  
a substring.\n * \n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n *\n * \n @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\n public operator fun  
CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n    if (other is String)\n        indexOf(other, ignoreCase) >= 0\n    else\n        indexOf(other, 0, length, ignoreCase) >=  
0\n\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n * \n * @param  
ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n *\n * \n @Suppress("INAPPLICABLE_OPERATOR_MODIFIER")\n public operator fun CharSequence.contains(char:  
Char, ignoreCase: Boolean = false): Boolean =\n    indexOf(char, ignoreCase) >= 0\n\n\n\n/**\n * Returns  
`true` if this char sequence contains at least one match of the specified regular expression [regex].\n *\n * \n @kotlin.internal.InlineOnly\n public inline operator fun CharSequence.contains(regex: Regex): Boolean =  
    regex.containsMatchIn(this)\n\n\n\n// rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n    private  
val input: CharSequence,\n    private val startIndex: Int,\n    private val limit: Int,\n    private val getNextMatch:  
CharSequence.(currentIndex: Int) -> Pair<Int, Int>? ) : Sequence<IntRange> {\n    override fun iterator():  
Iterator<IntRange> = object : Iterator<IntRange> {\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for  
continue\n        var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n        var nextSearchIndex: Int =  
currentStartIndex\n        var nextItem: IntRange? = null\n        var counter: Int = 0\n        private fun calcNext() {\n            if (nextSearchIndex < 0) {\n                nextState = 0\n                nextItem = null\n            } else {\n                if  
(limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\n                    nextItem =  
currentStartIndex..input.lastIndex\n                    nextSearchIndex = -1\n                } else {\n                    val match =  
input.getNextMatch(nextSearchIndex)\n                    if (match == null) {\n                        nextItem =  
currentStartIndex..input.lastIndex\n                    } else {\n                        val  
(index, length) = match\n                        nextItem = currentStartIndex until index\n                        currentStartIndex  
= index + length\n                        nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n                    }\n                }\n                nextState = 1\n            }\n        }\n        override fun next(): IntRange {\n            if (nextState ==  
-1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val  
result = nextItem as IntRange\n            // Clean next to avoid keeping reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n\n/**\n * Returns a  
sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n * \n * @param delimiters One or more characters to be used as delimiters.\n * \n * @param startIndex The index to start  
searching delimiters from.\n * \n * No range having its start value less than [startIndex] is returned.\n * \n * [startIndex] is  
coerced to be non-negative and not greater than length of this string.\n * \n * @param ignoreCase `true` to ignore  
character case when matching a delimiter. By default `false`.\n * \n * @param limit The maximum number of substrings  
to return. Zero by default means no limit is set.\n *\n * \n private fun CharSequence.rangesDelimitedBy(delimiters:  
CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    require(limit  
>= 0, { "Limit must be non-negative, but was $limit." })\n    return DelimitedRangesSequence(this, startIndex,  
limit, { currentIndex -> \n        indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it < 0) null  
else it to 1 } })\n}\n\n\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around  
occurrences of the specified [delimiters].\n * \n * @param delimiters One or more strings to be used as delimiters.\n * \n * @param startIndex The index to start searching delimiters from.\n * \n * No range having its start value less than  
[startIndex] is returned.\n * \n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n * \n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * \n * @param limit  
The maximum number of substrings to return. Zero by default means no limit is set.\n * \n * \n * To avoid ambiguous  
results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the  
end of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that  
position.\n *\n * \n private fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0,  
ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n    require(limit >= 0, { "Limit must be non-
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negative, but was $limit." } )\n  val delimitersList = delimiters.asList()\n\n  return
DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex,
ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\n\n// split\n\n/**\n * Splits this
char sequence to a sequence of strings around occurrences of the specified [delimiters].\n * \n * @param delimiters
One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching
a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default
means no limit is set.\n * \n * To avoid ambiguous results when strings in [delimiters] have characters in common,
this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in
[delimiters]\n * that matches this string at that position.\n */\n\npublic fun CharSequence.splitToSequence(vararg
delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this
char sequence to a list of strings around occurrences of the specified [delimiters].\n * \n * @param delimiters One or
more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a
delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means
no limit is set.\n * \n * To avoid ambiguous results when strings in [delimiters] have characters in common, this
method proceeds from\n * the beginning to the end of this string, and matches at each position the first element in
[delimiters]\n * that is equal to a delimiter in this instance at that position.\n */\n\npublic fun
CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n  if
(delimiters.size == 1) {\n    val delimiter = delimiters[0]\n    if (!delimiter.isEmpty()) {\n      return
split(delimiter, ignoreCase, limit)\n    }\n  }\n\n  return rangesDelimitedBy(delimiters, ignoreCase =
ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of
strings around occurrences of the specified [delimiters].\n * \n * @param delimiters One or more characters to be
used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default
`false`.\n * @param limit The maximum number of substrings to return.\n */\n\npublic fun
CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =\n
rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n * \n *
@param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore
character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings
to return.\n */\n\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0):
List<String> {\n  if (delimiters.size == 1) {\n    return split(delimiters[0].toString(), ignoreCase, limit)\n  }\n\n
return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it)
}\n}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This
is specialized version of split which receives single non-empty delimiter and offers better performance\n * \n *
@param delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a
delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\n\nprivate fun
CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n  require(limit >= 0, {
"Limit must be non-negative, but was $limit." })\n\n  var currentOffset = 0\n  var nextIndex =
indexOf(delimiter, currentOffset, ignoreCase)\n  if (nextIndex == -1 || limit == 1) {\n    return
listOf(this.toString())\n  }\n\n  val isLimited = limit > 0\n  val result = ArrayList<String>(if (isLimited)
limit.coerceAtMost(10) else 10)\n  do {\n    result.add(substring(currentOffset, nextIndex))\n    currentOffset
= nextIndex + delimiter.length\n    // Do not search for next occurrence if we're reaching limit\n    if (isLimited
&& result.size == limit - 1) break\n    nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n  } while
(nextIndex != -1)\n\n  result.add(substring(currentOffset, length))\n  return result\n}\n\n/**\n * Splits this char
sequence around matches of the given regular expression.\n * \n * @param limit Non-negative value specifying the
maximum number of substrings to return.\n * Zero by default means no limit is set.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> =
regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the following

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character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n
*\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence("\\r\\n", "\\n",
"\\r")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences:
CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun
CharSequence.lines(): List<String> = lineSequence().toList()\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n *
Converts the characters in the specified array to a string.\n */\n@SinceKotlin("1.2")\n\npublic actual fun
String(chars: CharArray): String {\n    var result = ""\n    for (char in chars) {\n        result += char\n    }\n    return
result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n */\n * @throws
IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset + length` is out of [chars]
array bounds.\n */\n@SinceKotlin("1.2")\n\npublic actual fun String(chars: CharArray, offset: Int, length: Int):
String {\n    if (offset < 0 || length < 0 || chars.size - offset < length)\n        throw
IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")\n    var result = ""\n    for
(index in offset until offset + length) {\n        result += chars[index]\n    }\n    return result\n}\n\n/**\n *
Concatenates characters in this [CharArray] into a String.\n
*\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic actual fun CharArray.concatToString(): String {\n
var result = ""\n    for (char in this) {\n        result += char\n    }\n    return result\n}\n\n/**\n * Concatenates
characters in this [CharArray] or its subrange into a String.\n */\n * @param startIndex the beginning (inclusive) of
the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters,
size of this array by default.\n */\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
[endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater
than [endIndex].\n
*\n@SinceKotlin("1.3")\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\n@ExperimentalStdlibApi\n\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n    var result = ""\n    for (index in
startIndex until endIndex) {\n        result += this[index]\n    }\n    return result\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string.\n */\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic actual fun
String.toCharArray(): CharArray {\n    return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray]
containing characters of this string or its substring.\n */\n * @param startIndex the beginning (inclusive) of the
substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n
*\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length
of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n
*\n@SinceKotlin("1.3")\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\n@ExperimentalStdlibApi\n\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray
{\n    AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n    return CharArray(endIndex - startIndex) {
get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n */\n *
Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n
*\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic actual fun ByteArray.decodeToString(): String {\n
return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array
or its subrange.\n */\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n *
@param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n * @param
throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the
replacement char `\\uFFFD`.\n */\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or
[endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater
than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte
sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.3")\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\n@ExperimentalStdlibApi\n\npublic actual fun ByteArray.decodeToString(startIndex: Int = 0, endIndex: Int = this.length, throwOnInvalidSequence: Boolean = false): String
{\n    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\n */\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\n */\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n
*\n@SinceKotlin("1.3")\n\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n\n@ExperimentalStdlibApi\n\npublic actual fun ByteArray.decodeToString(startIndex: Int = 0, endIndex: Int = this.length, throwOnInvalidSequence: Boolean = false): String
{\n    return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n

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mentalStdlibApi\npublic actual fun ByteArray.decodeToString(\n  startIndex: Int = 0,\n  endIndex: Int =
this.size,\n  throwOnInvalidSequence: Boolean = false\n): String {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n  return decodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n *\n * Any
malformed char sequence is replaced by the replacement byte sequence.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public actual fun String.encodeToByteArray(): ByteArray
{\n  return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this string or its substring to an array of bytes in
UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n *
@param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n * @param
throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\n *\n *
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of
this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws
CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n
*\n @SinceKotlin("1.3")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n @Experi
mentalStdlibApi\n public actual fun String.encodeToByteArray(\n  startIndex: Int = 0,\n  endIndex: Int =
this.length,\n  throwOnInvalidSequence: Boolean = false\n): ByteArray {\n
AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n  return encodeUtf8(this, startIndex, endIndex,
throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the
default locale.\n *\n * @sample samples.text.Strings.toUpperCase\n *\n @kotlin.internal.InlineOnly\n public actual
inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string
converted to lower case using the rules of the default locale.\n *\n * @sample samples.text.Strings.toLowerCase\n
*\n @kotlin.internal.InlineOnly\n public actual inline fun String.toLowerCase(): String =
asDynamic().toLowerCase()\n\n @kotlin.internal.InlineOnly\n internal actual inline fun String.nativeIndexOf(str:
String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\n\n @kotlin.internal.InlineOnly\n internal actual
inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str,
fromIndex)\n\n @kotlin.internal.InlineOnly\n internal inline fun String.nativeStartsWith(s: String, position: Int):
Boolean = asDynamic().startsWith(s, position)\n\n @kotlin.internal.InlineOnly\n internal inline fun
String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\n\n @kotlin.internal.InlineOnly\n public
actual inline fun String.substring(startIndex: Int): String =
asDynamic().substring(startIndex)\n\n @kotlin.internal.InlineOnly\n public actual inline fun
String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
endIndex)\n\n @kotlin.internal.InlineOnly\n public inline fun String.concat(str: String): String =
asDynamic().concat(str)\n\n @kotlin.internal.InlineOnly\n public inline fun String.match(regex: String):
Array<String>? = asDynamic().match(regex)\n\n //native public fun String.trim(): String\n\n //TODO: String.replace to
implement effective trimLeading and trimTrailing\n\n @kotlin.internal.InlineOnly\n internal inline fun
String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern,
replacement)\n\n @SinceKotlin("1.2")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS
")\n public actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n  if (ignoreCase) {\n
val n1 = this.length\n    val n2 = other.length\n    val min = minOf(n1, n2)\n    if (min == 0) return n1 - n2\n
var start = 0\n    while (true) {\n        val end = minOf(start + 16, min)\n        var s1 = this.substring(start,
end)\n        var s2 = other.substring(start, end)\n        if (s1 != s2) {\n            s1 = s1.toUpperCase()\n
s2 = s2.toUpperCase()\n            if (s1 != s2) {\n                s1 = s1.toLowerCase()\n                s2 =
s2.toLowerCase()\n                if (s1 != s2) {\n                    return s1.compareTo(s2)\n                }\n
}\n        }\n        if (end == min) break\n        start = end\n    }\n    return n1 - n2\n  } else {\n    return
compareTo(other)\n  }\n}\n\n private val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b
-> a.compareTo(b, ignoreCase = true) }\n\n @SinceKotlin("1.2")\n public actual val
String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n  get() =
STRING_CASE_INSENSITIVE_ORDER\n", "*/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming

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Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *^/\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UByteArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n /** Creates
a new array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(ByteArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called
using the index operator.\n *^*\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is unspecified.\n *^*\n public
operator fun get(index: Int): UByte = storage[index].toUByte()\n\n /**\n * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n *^*\n * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is
unspecified.\n *^*\n public operator fun set(index: Int, value: UByte) {\n storage[index] = value.toByte()\n
}\n\n /** Returns the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. *\n public override operator fun iterator(): UByteIterator =
Iterator(storage)\n\n private class Iterator(private val array: ByteArray) : UByteIterator() {\n private var index
= 0\n override fun hasNext() = index < array.size\n override fun nextUByte() = if (index < array.size)
array[index++].toUByte() else throw NoSuchElementException(index.toString())\n }\n\n override fun
contains(element: UByte): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n if ((element as Any?) != UByte)
return false\n return storage.contains(element.toByte())\n }\n\n override fun containsAll(elements:
Collection<UByte>): Boolean {\n return (elements as Collection<*>).all { it is UByte &&
storage.contains(it.toByte()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n *^*\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index ->
init(index).toByte()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *^/\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
UIntArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@PublishedAp
i\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new
array of the specified [size], with all elements initialized to zero. *\n public constructor(size: Int) :
this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using
the index operator.\n *^*\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is unspecified.\n *^*\n public
operator fun get(index: Int): UInt = storage[index].toInt()\n\n /**\n * Sets the element at the given [index] to
the given [value]. This method can be called using the index operator.\n *^*\n * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsExcpetion] except in Kotlin/JS\n * where the behavior is unspecified.\n
*\n *^*\n public operator fun set(index: Int, value: UInt) {\n storage[index] = value.toInt()\n }\n\n /** Returns
the number of elements in the array. *\n public override val size: Int get() = storage.size\n\n /** Creates an
iterator over the elements of the array. *\n public override operator fun iterator(): UIntIterator =
Iterator(storage)\n\n private class Iterator(private val array: IntArray) : UIntIterator() {\n private var index =
0\n override fun hasNext() = index < array.size\n override fun nextUInt() = if (index < array.size)

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array[index++].toUInt() else throw NoSuchElementException(index.toString())\n }\n\n override fun
contains(element: UInt): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n if ((element as Any?) !is UInt)
return false\n\n return storage.contains(element.toInt())\n }\n\n override fun containsAll(elements:
Collection<UInt>): Boolean {\n return (elements as Collection<*>).all { it is UInt &&
storage.contains(it.toInt()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index ->
init(index).toInt()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
uintArrayOf(vararg elements: UInt): UIntArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic inline class
ULongArray\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n@Published
Api\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n /** Creates
a new array of the specified [size], with all elements initialized to zero. */\n public constructor(size: Int) :
this(LongArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called
using the index operator.\n * If the [index] is out of bounds of this array, throws an
[IndexOutOfBounds] exception in Kotlin/JS\n * where the behavior is unspecified.\n */\n public
operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBounds] exception in Kotlin/JS\n * where the behavior is
unspecified.\n */\n public operator fun set(index: Int, value: ULong) {\n storage[index] = value.toLong()\n
}\n\n /** Returns the number of elements in the array. */\n public override val size: Int get() = storage.size\n\n
/** Creates an iterator over the elements of the array. */\n public override operator fun iterator(): ULongIterator =
Iterator(storage)\n\n private class Iterator(private val array: LongArray) : ULongIterator() {\n private var
index = 0\n override fun hasNext() = index < array.size\n override fun nextULong() = if (index < array.size)
array[index++].toULong() else throw NoSuchElementException(index.toString())\n }\n\n override fun
contains(element: ULong): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n //
Currently JS BE does not generate special bridge method for this method.\n if ((element as Any?) !is ULong)
return false\n\n return storage.contains(element.toLong())\n }\n\n override fun containsAll(elements:
Collection<ULong>): Boolean {\n return (elements as Collection<*>).all { it is ULong &&
storage.contains(it.toLong()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n return ULongArray(LongArray(size) { index ->
init(index).toLong()
})\n}\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport

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kotlin.experimental.*\n\n@Suppress("\NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")\n\n@
SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic inline class ULong @PublishedApi internal
constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n\n    companion object {\n        /**\n
        * A constant holding the minimum value an instance of ULong can have.\n        */\n        public const val
MIN_VALUE: ULong = ULong(0)\n\n        /**\n        * A constant holding the maximum value an instance of
ULong can have.\n        */\n        public const val MAX_VALUE: ULong = ULong(-1)\n\n        /**\n        * The
number of bytes used to represent an instance of ULong in a binary form.\n        */\n        public const val
SIZE_BYTES: Int = 8\n\n        /**\n        * The number of bits used to represent an instance of ULong in a binary
form.\n        */\n        public const val SIZE_BITS: Int = 64\n    }\n\n    /**\n    * Compares this value with the
specified value for order.\n    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n    * or a positive number if it's greater than other.\n    */\n    @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n    /**\n    *
Compares this value with the specified value for order.\n    * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n    * or a positive number if it's greater than other.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun compareTo(other: UShort): Int =
this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the specified value for order.\n    *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n    * or a
positive number if it's greater than other.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n    /**\n    * Compares this value with the
specified value for order.\n    * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n    * or a positive number if it's greater than other.\n    */\n    @kotlin.internal.InlineOnly\n
@Suppress("\OVERRIDE_BY_INLINE")\n    public override inline operator fun compareTo(other: ULong): Int =
ulongCompare(this.data, other.data)\n\n    /**\n    * Adds the other value to this value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n
\n    /**\n    * Adds the other value to this value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
plus(other:
UShort): ULong = this.plus(other.toULong())\n\n    /**\n    * Adds the other value to this value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n
\n    /**\n    * Adds the other value to this value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
plus(other:
ULong): ULong = ULong(this.data.plus(other.data))\n\n    /**\n    * Subtracts the other value from this value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UByte): ULong =
this.minus(other.toULong())\n\n    /**\n    * Subtracts the other value from this value.\n    */\n    @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n\n    /**\n    * Subtracts the other
value from this value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun minus(other: UInt): ULong =
this.minus(other.toULong())\n\n    /**\n    * Subtracts the other value from this value.\n    */\n    @kotlin.internal.InlineOnly\n
public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n    /**\n    * Multiplies
this value by the other value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n\n    /**\n    * Multiplies this value by the other value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n\n    /**\n    * Multiplies this value by the other value.\n    */\n    @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n\n    /**\n    * Multiplies this value by
the other value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n    /**\n    * Divides this value by the other value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n
\n    /**\n    * Divides this value by the other value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
div(other:
UShort): ULong = this.div(other.toULong())\n\n    /**\n    * Divides this value by the other value.\n    */\n
    @kotlin.internal.InlineOnly\n    public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n
\n    /**\n    * Divides this value by the other value.\n    */\n    @kotlin.internal.InlineOnly\n    public inline operator fun
div(other:
ULong): ULong = ulongDivide(this, other)\n\n    /**\n    * Calculates the remainder of dividing this value by the other

```

```

value. *^n @kotlin.internal.InlineOnly^n public inline operator fun rem(other: UByte): ULong =
this.rem(other.toULong())^n /** Calculates the remainder of dividing this value by the other value. *^n
@kotlin.internal.InlineOnly^n public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())^n
/** Calculates the remainder of dividing this value by the other value. *^n @kotlin.internal.InlineOnly^n public
inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())^n /** Calculates the remainder of
dividing this value by the other value. *^n @kotlin.internal.InlineOnly^n public inline operator fun rem(other:
ULong): ULong = ulongRemainder(this, other)^n^n /** Increments this value. *^n @kotlin.internal.InlineOnly^n
public inline operator fun inc(): ULong = ULong(data.inc())^n /** Decrements this value. *^n
@kotlin.internal.InlineOnly^n public inline operator fun dec(): ULong = ULong(data.dec())^n^n /** Creates a
range from this value to the specified [other] value. *^n @kotlin.internal.InlineOnly^n public inline operator fun
rangeTo(other: ULong): ULongRange = ULongRange(this, other)^n^n /** Shifts this value left by the [bitCount]
number of bits. *^n @kotlin.internal.InlineOnly^n public inline infix fun shl(bitCount: Int): ULong =
ULong(data shl bitCount)^n^n /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits
with zeros. *^n @kotlin.internal.InlineOnly^n public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)^n^n /** Performs a bitwise AND operation between the two values. *^n
@kotlin.internal.InlineOnly^n public inline infix fun and(other: ULong): ULong = ULong(this.data and
other.data)^n^n /** Performs a bitwise OR operation between the two values. *^n @kotlin.internal.InlineOnly^n
public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)^n^n /** Performs a bitwise XOR
operation between the two values. *^n @kotlin.internal.InlineOnly^n public inline infix fun xor(other: ULong):
ULong = ULong(this.data xor other.data)^n^n /** Inverts the bits in this value. *^n @kotlin.internal.InlineOnly^n
public inline fun inv(): ULong = ULong(data.inv())^n^n /** * Converts this [ULong] value to [Byte].^n *^n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents^
* the same numerical value as this `ULong`.^n *^n * The resulting `Byte` value is represented by the least significant 8 bits
of this `ULong` value.^n * Note that the resulting `Byte` value may be negative.^n *^n
@kotlin.internal.InlineOnly^n public inline fun toByte(): Byte = data.toByte()^n /**^n * Converts this [ULong]
value to [Short].^n *^n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value
represents^
* the same numerical value as this `ULong`.^n *^n * The resulting `Short` value is represented
by the least significant 16 bits of this `ULong` value.^n * Note that the resulting `Short` value may be negative.^n
*^n
@kotlin.internal.InlineOnly^n public inline fun toShort(): Short = data.toShort()^n /**^n * Converts this
[ULong] value to [Int].^n *^n * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int`
value represents^
* the same numerical value as this `ULong`.^n *^n * The resulting `Int` value is
represented by the least significant 32 bits of this `ULong` value.^n * Note that the resulting `Int` value may be
negative.^n *^n
@kotlin.internal.InlineOnly^n public inline fun toInt(): Int = data.toInt()^n /**^n *
Converts this [ULong] value to [Long].^n *^n * 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.^n *^n * The resulting `Long` value has the same binary representation as this `ULong` value.^n *^n
@kotlin.internal.InlineOnly^n public inline fun toLong(): Long = data^
^n /**^n * Converts this [ULong]
value to [UByte].^n *^n * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte`
value represents^
* the same numerical value as this `ULong`.^n *^n * The resulting `UByte` value is
represented by the least significant 8 bits of this `ULong` value.^n *^n
@kotlin.internal.InlineOnly^n public
inline fun toUByte(): UByte = data.toUByte()^n /**^n * Converts this [ULong] value to [UShort].^n *^n * If
this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents^
* the same numerical value as this `ULong`.^n *^n * The resulting `UShort` value is represented by the least significant 16
bits of this `ULong` value.^n *^n
@kotlin.internal.InlineOnly^n public inline fun toUShort(): UShort =
data.toUShort()^n /**^n * Converts this [ULong] value to [UInt].^n *^n * If this value is less than or equals
to [UInt.MAX_VALUE], the resulting `UInt` value represents^
* the same numerical value as this `ULong`.^n
*^n * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.^n *^n
@kotlin.internal.InlineOnly^n public inline fun toUInt(): UInt = data.toUInt()^n /** Returns this value. *^n

```


If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component2(): UByte {\n    return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
```

If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component2(): UShort {\n    return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component3(): UInt {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
ULongArray.component3(): ULong {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component3(): UByte {\n    return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n *
```

If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component3(): UShort {\n    return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
```

If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component4(): UInt {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
```

If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun ULongArray.component4(): ULong {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from  
the array.\n * \n *
```

If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component4(): UByte {\n    return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n *
```

If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component4(): UShort {\n    return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
```

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component5(): UInt {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
```

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun ULongArray.component5(): ULong {\n    return get(4)\n}\n\n/**\n * Returns 5th *element* from  
the array.\n * \n *
```

If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS where the behavior is unspecified.

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component5(): UByte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n *
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component5(): UShort {\n return get(4)\n}\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int):
UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int):
ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int):
UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index]
is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
'null' if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrNull(index: Int): UInt? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or 'null' if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrNull(index: Int): ULong? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or 'null' if the [index] is out of bounds of this array.\n * \n * @sample


```

samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n    return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n    return lastOrNull(predicate)\n}\n\n/**\n *
Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(): UInt {\n    return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.first(): ULong {\n    return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.first(): UByte {\n    return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.first(): UShort {\n    return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n    for (element in this) if (predicate(element)) return
element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such

```

element is found.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n    for (element in this) if (predicate(element)) return  
    element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such  
element is found.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n    for (element in this) if (predicate(element)) return  
    element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such  
element is found.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n    for (element in this) if (predicate(element)) return  
    element\n    throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n    return  
    if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n    return  
    if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n    return  
    if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n    return  
    if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null`\nif element was not found.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (element in this) if (predicate(element)) return  
    element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element  
was not found.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (element in this) if  
(predicate(element)) return element\n    return null\n}\n\n/**\n * Returns the first element matching the given  
[predicate], or `null` if element was not found.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (element in this) if (predicate(element))  
    return element\n    return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if  
element was not found.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (element in this) if (predicate(element))  
    return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the  
[defaultValue] function if the [index] is out of bounds of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
UIntArray.getOrNull(index: Int, defaultValue: (Int) -> UInt): UInt? {\n    return if (index >= 0 && index <=  
    lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of  
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun  
ULongArray.getOrNull(index: Int, defaultValue: (Int) -> ULong): ULong? {\n    return if (index >= 0 && index <=  
    lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of  
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n  return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.getOrNull(index: Int): UInt? {\n  return if (index >= 0 && index <= lastIndex) get(index) else
null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n  return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n  return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n  return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n  return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n  return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n  return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n  return storage.indexOfFirst { predicate(it.toUInt())
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array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n  return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain

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such element.\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
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predicate(it.toUShort()) }\n }\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the
array is empty.\n * \n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public
inline fun UIntArray.last(): UInt {\n     return storage.last().toUInt()\n }\n\n/**\n * Returns the last element.\n *
@throws [NoSuchElementException] if the array is empty.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
ULongArray.last(): ULong {\n     return storage.last().toULong()\n }\n\n/**\n * Returns the last element.\n *
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UShortArray.last(): UShort {\n     return storage.last().toUShort()\n }\n\n/**\n * Returns the last element matching
the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n     for (index in this.indices.reversed()) {\n         val element =
this[index]\n         if (predicate(element)) return element\n     }\n     throw NoSuchElementException("Array contains
no element matching the predicate.")\n }\n\n/**\n * Returns the last element matching the given [predicate].\n *
@throws [NoSuchElementException] if no such element is found.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n     for (index in this.indices.reversed()) {\n         val
element = this[index]\n         if (predicate(element)) return element\n     }\n     throw
NoSuchElementException("Array contains no element matching the predicate.")\n }\n\n/**\n * Returns the last
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*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n     return storage.lastIndexOf(element.toInt())\n }\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n     return storage.lastIndexOf(element.toLong())\n }\n\n/**\n *

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Returns last index of [element], or -1 if the array does not contain element.\n

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Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n    return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n    return
if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n    return
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UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last
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ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n    for (index in this.indices.reversed()) {\n        val
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UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n    for (index in this.indices.reversed()) {\n        val
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n    for (index in this.indices.reversed()) {\n        val
element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n *
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UShortArray.random(): UShort {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n    if (isEmpty())\n        throw NoSuchElementException("Array is empty.")\n    return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n if (isEmpty())\n     throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random):
UByte {\n if (isEmpty())\n     throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random):
UShort {\n if (isEmpty())\n     throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
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UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n     return null\n return
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randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
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randomness, or `null` if this array is empty.\n
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UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n     return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(): UInt {\n return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an
exception if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(): ULong {\n return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or
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UShortArray.single(): UShort {\n    return storage.single().toUShort()\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n    var single: UInt? = null\n    var found = false\n    for
(element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UInt\n}\n\n/**\n * Returns the single element matching
the given [predicate], or throws exception if there is no or more than one matching element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n    var single: ULong? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as ULong\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n
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UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n    var single: UByte? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UByte\n}\n\n/**\n * Returns the single element
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UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n    var single: UShort? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException("Array
contains more than one matching element.")\n            single = element\n            found = true\n        }\n    }\n    if
(!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n    @Suppress("UNCHECKED_CAST")\n    return single as UShort\n}\n\n/**\n * Returns single element, or `null` if
the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.singleOrNull(): ULong? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single
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UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n    var single: UInt? = null\n    var found = false\n
for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n
found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n
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ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n    var single: ULong? = null\n    var found

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= false\n for (element in this) {\n     if (predicate(element)) {\n         if (found) return null\n         single = element\n         found = true\n     }\n } \n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n    var single: UByte? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n    var single: UShort? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int): List<ULong> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample samples.collections.Collections.Transformations.drop\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n */\n@throws IllegalArgumentException if [n] is negative.\n */\n@sample

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samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int):
List<UShort> {\n    require(n >= 0) { "Requested element count $n is less than zero." }\n    return take((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n        return take(index + 1)\n    }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0)
{\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo
0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    var yielding = false\n    val list =
ArrayList<UInt>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n
            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list =
ArrayList<ULong>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list =
ArrayList<UByte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all
elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list =
ArrayList<UShort>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item))
{\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only
elements matching the given [predicate].\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n  return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n  return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n  return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n  return filterTo(ArrayList<UShort>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n  return
filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n  return
filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n  return
filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n  return
filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate]
to the given [destination].\n * @param [predicate] function that takes the index of an element and the element
itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C
{\n  forEachIndexed { index, element ->\n    if (predicate(index, element)) destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) ->
Boolean): C {\n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) ->

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Boolean): C { \n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) ->
Boolean): C { \n  forEachIndexed { index, element ->\n    if (predicate(index, element))
destination.add(element)\n  }\n  return destination\n}\n\n/**\n * Returns a list containing all elements not
matching the given [predicate].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> { \n  return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> { \n  return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> { \n  return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> { \n  return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C { \n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C { \n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements not matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C { \n  for
(element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C { \n
for (element in this) if (!predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C { \n  for (element
in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C { \n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C { \n  for

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(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n  for
(element in this) if (predicate(element)) destination.add(element)\n  return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange):
List<UInt> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive +
1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange):
List<ULong> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange):
List<UByte> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange):
List<UShort> {\n  if (indices.isEmpty()) return listOf()\n  return copyOfRange(indices.start, indices.endInclusive
+ 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>):
List<UInt> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<UInt>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>):
List<ULong> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<ULong>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>):
List<UByte> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<UByte>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns a list containing elements at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>):
List<UShort> {\n  val size = indices.collectionSizeOrDefault(10)\n  if (size == 0) return emptyList()\n  val list =
ArrayList<UShort>(size)\n  for (index in indices) {\n    list.add(get(index))\n  }\n  return list\n}\n\n/**\n *
Returns an array containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices:
Collection<Int>): UIntArray {\n  return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices:
Collection<Int>): ULongArray {\n  return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices:
Collection<Int>): UByteArray {\n  return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array
containing elements of this array at specified [indices].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices:
Collection<Int>): UShortArray {\n  return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an
array containing elements at indices in the specified [indices] range.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange):
UIntArray {\n  return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at

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indices in the specified [indices] range.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.sliceArray(indices: IntRange): ULongArray {\n    return
ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sliceArray(indices: IntRange): UByteArray {\n    return
UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the
specified [indices] range.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.sliceArray(indices: IntRange): UShortArray {\n    return
UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UInt>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<ULong>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UByte>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >=
size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UShort>(n)\n    for
(item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns
a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size =
size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<UInt>(n)\n
for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong>
{\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list =
ArrayList<ULong>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>

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{\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UByte>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n  require(n >= 0) { \"Requested element count $n is less than zero.\" }\n  if (n == 0) return emptyList()\n  val size = size\n  if (n >= size) return toList()\n  if (n == 1) return listOf(this[size - 1])\n  val list = ArrayList<UShort>(n)\n  for (index in size - n until size)\n    list.add(this[index])\n  return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  for (index in lastIndex downTo 0) {\n    if (!predicate(this[index]))\n      return drop(index + 1)\n  }\n  return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n  val list = ArrayList<UInt>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n  val list = ArrayList<ULong>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n  val list = ArrayList<UByte>()\n  for (item in this) {\n    if (!predicate(item))\n      break\n    list.add(item)\n  }\n  return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n  val list = ArrayList<UShort>()\n  for

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(item in this) {\n    if (!predicate(item))\n        break\n    list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.reverse(): Unit {\n    storage.reverse()\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n    if\n    (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a\n    list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    ULongArray.reversed(): List<ULong> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n    if\n    (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns\n    a list with elements in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    UShortArray.reversed(): List<UShort> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UIntArray.reversedArray(): UIntArray {\n    return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an\n    array with elements of this array in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    ULongArray.reversedArray(): ULongArray {\n    return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UByteArray.reversedArray(): UByteArray {\n    return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns\n    an array with elements of this array in reversed order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n    UShortArray.reversedArray(): UShortArray {\n    return UShortArray(storage.reversedArray())\n}\n\n/**\n * Sorts\n    elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(): Unit {\n    if\n    (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending\n    according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    ULongArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts\n    elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n    if\n    (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Sorts elements in the array in-place descending\n    according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    UShortArray.sortDescending(): Unit {\n    if (size > 1) {\n        sort()\n        reverse()\n    }\n}\n\n/**\n * Returns a\n    list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n    return\n    copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted\n    according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    ULongArray.sorted():\n    List<ULong> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted\n    according to their natural sort order.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun\n    UByteArray.sorted(): List<UByte> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all

```

elements sorted according to their natural sort order.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n    return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted
```

```
according to their natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UIntArray.sortedArray(): UIntArray {\n    if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray
```

```
{\n    if (isEmpty()) return this\n    return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray
```

```
{\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray
```

```
{\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray
```

```
{\n    if (isEmpty()) return this\n    return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt>
```

```
{\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UShortArray.sortedDescending(): List<UShort> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n    return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n    return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n    return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
```



```

List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray {\n    return storage\n}\n\n/**\n * Returns an array of type [ShortArray],
which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n    return storage\n}\n\n/**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of
this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.asUByteArray(): UByteArray {\n    return UByteArray(this)\n}\n\n/**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.asUIntArray(): UIntArray {\n    return UIntArray(this)\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {\n    return ULongArray(this)\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {\n    return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun
UIntArray.contentEquals(other: UIntArray): Boolean {\n    return storage.contentEquals(other.storage)\n}\n\n/**\n *
Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of
the same elements in the same order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun
ULongArray.contentEquals(other: ULongArray): Boolean {\n    return
storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal
to one another,\n * i.e. contain the same number of the same elements in the same order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other:
UByteArray): Boolean {\n    return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun
UShortArray.contentEquals(other: UShortArray): Boolean {\n    return
storage.contentEquals(other.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is
[List].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int
{\n    return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it
is [List].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.contentHashCode(): Int {\n    return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n

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return storage.contentHashCode()\n\n/**\n * Returns a hash code based on the contents of this array as if it is
[List].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode():
Int {\n    return storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the
specified array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\n}\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\n}\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\n}\n\n/**\n * Returns a string representation of the contents of the specified
array as if it is [List].\n *\n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n
return joinToString(", ", "[", "]")\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and
returns that array.\n *\n * It's allowed to pass the same array in the [destination] and even specify the subrange so
that it overlaps with the destination range.\n *\n * @param destination the array to copy to.\n * @param
destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the
beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the
subrange to copy, size of this array by default.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex
> endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array
starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices
range.\n *\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UIntArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *\n
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n *\n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n *\n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
ULongArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *\n
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n *\n
* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index
is out of the [destination] array indices range.\n *\n * @return the [destination] array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size):
UByteArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *
It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the
destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the
[destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy,
0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of
range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is
out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
size): UShortArray {\n    storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n    return
destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(): UIntArray {\n    return UIntArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array which is
a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(): ULongArray {\n    return ULongArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfOf(): UByteArray {\n    return UByteArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOfOf\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfOf(): UShortArray {\n    return UShortArray(storage.copyOfOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at
the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array
is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the
copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfOf(newSize: Int): UIntArray {\n    return UIntArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfOf(newSize: Int): ULongArray {\n    return ULongArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfOf(newSize: Int): UByteArray {\n    return UByteArray(storage.copyOfOf(newSize))\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the

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original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOf(newSize: Int): UShortArray {\n    return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n *
Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start
of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in
`fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n    return
UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n    return
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n    return
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the
specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in
`0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n    return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the
specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param
toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:
Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by
default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n    storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n *
Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,

```

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fromIndex: Int = 0, toIndex: Int = size): Unit {
    storage.fill(element.toShort(), fromIndex, toIndex)
}

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UIntArray.indices: IntRange
    get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val ULongArray.indices: IntRange
    get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UByteArray.indices: IntRange
    get() = storage.indices

Returns the range of valid indices for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UShortArray.indices: IntRange
    get() = storage.indices

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UIntArray.lastIndex: Int
    get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val ULongArray.lastIndex: Int
    get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UByteArray.lastIndex: Int
    get() = storage.lastIndex

Returns the last valid index for the array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public inline val UShortArray.lastIndex: Int
    get() = storage.lastIndex

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UIntArray.plus(element: UInt): UIntArray {
    return UIntArray(storage +
        element.toInt())

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun ULongArray.plus(element: ULong): ULongArray {
    return ULongArray(storage +
        element.toLong())

Returns an array containing all elements of the original array and then the given
[element].

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline
operator fun UByteArray.plus(element: UByte): UByteArray {
    return UByteArray(storage +
        element.toByte())

Returns an array containing all elements of the original array and then the given
[element].

@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] collection.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {
    var index = size
    val result =
        storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toByte()
    return
        UByteArray(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 UShortArray.plus(elements: Collection<UShort>): UShortArray {
    var index = size
    val result =
        storage.copyOf(size + elements.size)
    for (element in elements) result[index++] = element.toShort()
    return
        UShortArray(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

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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: UByteArray): 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)
}

Sorts the array in-place.

@sample
samples.collections.Arrays.Sorting.sortArray

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public
fun UShortArray.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 storage.copyOf()
}

Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation
of the corresponding element of this
array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.toLongArray(): LongArray {
    return storage.copyOf()
}

Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation
of the corresponding
element of this array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.toShortArray(): ShortArray {
    return storage.copyOf()
}

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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UIntArray.toTypedArray(): Array<UInt>
{
    return Array(size) { index -> this[index] }
}

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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun
ULongArray.toTypedArray(): Array<ULong> {
    return Array(size) { index -> this[index] }
}

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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UByteArray.toTypedArray():
Array<UByte> {
    return Array(size) { index -> this[index] }
}

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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun UShortArray.toTypedArray():
Array<UShort> {
    return Array(size) { index -> this[index] }
}

Returns an array of UByte containing
all of the elements of this generic array.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes
public fun

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Array<out UByte>.toUByteArray(): UByteArray {\n  return UByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned\n reinterpretation\n * of the corresponding element of this array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n ByteArray.toUByteArray(): UByteArray {\n  return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of\n UInt containing all of the elements of this generic array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Array<out UInt>.toUIntArray(): UIntArray\n {\n  return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a\n copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this\n array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n IntArray.toUIntArray(): UIntArray {\n  return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong\n containing all of the elements of this generic array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Array<out ULong>.toULongArray():\n ULongArray {\n  return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type\n [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the\n corresponding element of this array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n LongArray.toULongArray(): ULongArray {\n  return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array\n of UShort containing all of the elements of this generic array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n public fun Array<out UShort>.toUShortArray():\n UShortArray {\n  return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type\n [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the\n corresponding element of this array.\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun\n ShortArray.toUShortArray(): UShortArray {\n  return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a single\n list of all elements yielded from results of [transform] function being invoked on each element of original array.\n\n *\n @sample samples.collections.Collections.Transformations.flatMap\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n invoked on each element of original array.\n\n *\n @sample\n samples.collections.Collections.Transformations.flatMap\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n invoked on each element of original array.\n\n *\n @sample\n samples.collections.Collections.Transformations.flatMap\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being\n invoked on each element of original array.\n\n *\n @sample\n samples.collections.Collections.Transformations.flatMap\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R>\n UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n  return flatMapTo(ArrayList<R>(),\n transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each\n element of original array, to the given [destination].\n\n *\n @SinceKotlin("1.3")\n @ExperimentalUnsignedTypes\n @kotlin.internal.InlineOnly\n public inline fun <R, C : MutableCollection<in R>>\n UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n  for

```



```

UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n  return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements
of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to
the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UInt>>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n
for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<UInt>() }\n    list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<ULong>>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K):
M {\n for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<ULong>() }\n    list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UByte>>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K):
M {\n for (element in this) {\n    val key = keySelector(element)\n    val list = destination.getOrPut(key) {
ArrayList<UByte>() }\n    list.add(element)\n } \n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the

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[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<UShort>() }\n        list.add(element)\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n    for (element in this) {\n        val key = keySelector(element)\n        val list = destination.getOrPut(key) { ArrayList<V>() }\n        list.add(valueTransform(element))\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.map(transform: (UByte) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.map(transform: (UShort) -> R): List<R> {\n    return mapTo(ArrayList<R>(size),
transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each
element and its index in the original array.\n * @param [transform] function that takes the index of an element and
the element itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n    return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n    var
index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original array\n * and appends the results
to the given [destination].\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n    var
index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n    var
index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n

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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n
var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination}\n\n/**\n * Returns a lazy [Iterable] that wraps
each element of the original array\n * into an [IndexedValue] containing the index of that element and the element
itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex():
Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex():
Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all
elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return
false\n return true}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample

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samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(): Boolean {\n    return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches
the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n
return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return
true\n    return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.count(predicate: (UInt) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n    var count = 0\n    for (element in this) if
(predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right to current accumulator value and each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n    var accumulator = initial\n    for (element in this)
accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n    var accumulator = initial\n    for (element in
this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value

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starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n  var accumulator = initial\n  for
(element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right to current accumulator value and each
element.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n  var accumulator = initial\n  for
(element in this) accumulator = operation(accumulator, element)\n  return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and
each element with its index in the original array.\n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n  var index = 0\n  var
accumulator = initial\n  for (element in this) accumulator = operation(index++, accumulator, element)\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n  var index = lastIndex\n  var accumulator =
initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left
to each element and current accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n  var index = lastIndex\n  var
accumulator = initial\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n
return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right
to left to each element and current accumulator value.\n */
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

```

```

UByteArray.foldRight(initial: R, operation: (UByte, 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.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.foldRight(initial: R, operation: (UShort, 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 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>
UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, 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. @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>
ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, 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. @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
    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. @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>
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.

```

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {
    for (element in this) action(element)
}

```

Performs the given [action] on each element, providing sequential index with the element. @param [action]

function that takes the index of an element and the element itself
* and performs the desired action on the element.
@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {
var index = 0
for (item in this)
action(index++, item)
}
* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the desired action on the element.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {
var index = 0
for (item in this)
action(index++, item)
}
* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the desired action on the element.

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {
var index = 0
for (item in this)
action(index++, item)
}
* Performs the given [action] on each element, providing sequential index with the element.
* @param [action] function that takes the index of an element and the element itself
* and performs the desired action on 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
}
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* @sample samples.collections.Collections.Aggregates.maxBy

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {
if (isEmpty())
return null
var maxElem = this[0]
val lastIndex = this.lastIndex
if (lastIndex == 0) return maxElem
var maxV = selector(maxElem)
for (i in 1..lastIndex) {
val e = this[i]
val v = selector(e)
if (maxV < v) {
maxElem = e
maxV = v
}
}
return maxElem
}
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* @sample samples.collections.Collections.Aggregates.maxBy

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {
if (isEmpty())
return null
var maxElem = this[0]
val lastIndex = this.lastIndex
if (lastIndex == 0) return maxElem
var maxV = selector(maxElem)
for (i in 1..lastIndex) {
val e = this[i]
val v = selector(e)
if (maxV < v) {
maxElem = e
maxV = v
}
}
return maxElem
}
* Returns the first element yielding the largest value of the given function or `null` if there are no elements.
* @sample samples.collections.Collections.Aggregates.maxBy

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {
if (isEmpty())
return null
var


```

maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n * Returns the first
element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator:
Comparator<in ULong>): ULong? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWith(comparator:
Comparator<in UByte>): UByte? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWith(comparator:
Comparator<in UShort>): UShort? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n * Returns the
smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n    if (isEmpty())
return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min = e\n    }\n
return min\n}\n\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min =
e\n    }\n    return min\n}\n\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min =
e\n    }\n    return min\n}\n\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n    if
(isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (min > e) min =
e\n    }\n    return min\n}\n\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n    if (isEmpty()) return null\n    var minElem =
this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

```

```

Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n  if (isEmpty()) return null\n  var
minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)
{\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n  if (isEmpty()) return null\n  var
minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)
{\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minBy\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n  if (isEmpty()) return null\n  var
minElem = this[0]\n  val lastIndex = this.lastIndex\n  if (lastIndex == 0) return minElem\n  var minValue =
selector(minElem)\n  for (i in 1..lastIndex) {\n    val e = this[i]\n    val v = selector(e)\n    if (minValue > v)
{\n      minElem = e\n      minValue = v\n    }\n  }\n  return minElem\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator:
Comparator<in UInt>): UInt? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator:
Comparator<in ULong>): ULong? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator:
Comparator<in UByte>): UByte? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator:
Comparator<in UShort>): UShort? {\n  if (isEmpty()) return null\n  var min = this[0]\n  for (i in 1..lastIndex) {\n
val e = this[i]\n    if (comparator.compare(min, e) > 0) min = e\n  }\n  return min\n}\n\n/**\n * Returns
`true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.none\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(): Boolean {\n  return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

UIntArray.none(predicate: (UInt) -> Boolean): Boolean {
    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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
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

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (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.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
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.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.
@sample
samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.
@sample
samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right
to current accumulator value and each element with its index in the original array.
@param [operation] function that takes the index of an element, current accumulator value
and the element itself and calculates the next accumulator
value.
@sample
samples.collections.Collections.Aggregates.reduce

@SinceKotlin("1.3")@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly
public inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {
    if (isEmpty()) throw
    UnsupportedOperationException("Empty array can't be reduced.")
    var accumulator = this[0]
    for (index in 1..lastIndex) {
        accumulator = operation(index, accumulator, this[index])
    }
    return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element with its index in the original array.
@param [operation]

```

```

function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n  if (isEmpty())\n    throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n  if (isEmpty())\n    throw
UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = this[0]\n  for
(index in 1..lastIndex) {\n    accumulator = operation(index, accumulator, this[index])\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right to current accumulator value and each element. Returns null if the array is empty.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {\n  if (isEmpty())\n    return
null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right to current accumulator value and each element. Returns null
if the array is empty.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) -> UShort): UShort? {\n  if
(isEmpty())\n    return null\n  var accumulator = this[0]\n  for (index in 1..lastIndex) {\n    accumulator =
operation(accumulator, this[index])\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last
element and applying [operation] from right to left to each element and current accumulator value.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n  var index = lastIndex\n  if (index < 0)
throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n  var index = lastIndex\n  if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator = get(index--)\n
while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left
to each element and current accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n  var index = lastIndex\n  if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(get(index--), accumulator)\n  }\n  return
accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n
* to each element with its index in the original array and current accumulator value.\n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n  var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var accumulator =
get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index), accumulator)\n    --index\n
}\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from
right to left\n * to each element with its index in the original array and current accumulator value.\n * @param
[operation] function that takes the index of an element, the element itself\n * and current accumulator value, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n  var index =
lastIndex\n  if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n  var
accumulator = get(index--)\n  while (index >= 0) {\n    accumulator = operation(index, get(index),
accumulator)\n    --index\n  }\n  return accumulator\n}\n\n/**\n * Accumulates value starting with last element
and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and
current accumulator value, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

```

ByteArray.reduceRightIndexed(operation: (index: Int, 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(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.
 * @sample
samples.collections.Collections.Aggregates.reduceRight
*/
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)
        --index
    }
    return accumulator
}
/** Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt): UInt? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
/** Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) -> ULong): ULong? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
/** Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
/** Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value. Returns null if the array is empty.
 * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) -> UShort): UShort? {
    var index = lastIndex
    if (index < 0) return null
    var accumulator = get(index--)
    while (index >= 0) {
        accumulator = operation(get(index--), accumulator)
    }
    return accumulator
}
/** Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.
 * Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.
 * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
 * @sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial

```

```

for (element in this) {
    accumulator = operation(accumulator, element)
    result.add(accumulator)
}
return result
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.scan

```

*
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.scan

```

*
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.scan

```

*
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (element in this) {
        accumulator = operation(accumulator, element)
        result.add(accumulator)
    }
    return result
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.scan

```

*
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {
    if (isEmpty()) return listOf(initial)
    val result = ArrayList<R>(size + 1).apply { add(initial) }
    var accumulator = initial
    for (index in indices) {
        accumulator = operation(index, accumulator, this[index])
        result.add(accumulator)
    }
    return result
}

```

* Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

* Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

* @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.scan

```

*
@SinceKotlin("1.3")
@ExperimentalStdlibApi
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly

```

```

y\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R>
{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R>
{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R>
{\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var
accumulator = initial\n for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UIntArray.scanReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun ULongArray.scanReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample

```


samples.collections.Collections.Aggregates.scanReduce\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.scanReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UShort>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.scanReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UInt>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.scanReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<ULong>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator = operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n samples.collections.Collections.Aggregates.scanReduce\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.scanReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result = ArrayList<UByte>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =
```

```

operation(index, accumulator, this[index])\n    result.add(accumulator)\n } \n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scanReduce\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun UShortArray.scanReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort):
List<UShort> {\n    if (isEmpty()) return emptyList()\n    var accumulator = this[0]\n    val result =
ArrayList<UShort>(size).apply { add(accumulator) }\n    for (index in 1 until size) {\n        accumulator =
operation(index, accumulator, this[index])\n        result.add(accumulator)\n    }\n    return result\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum +=
selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n    var sum: UInt = 0u\n    for (element in this) {\n        sum
+= selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in this)
{\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\n
public inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n    var sum: Double = 0.0\n    for (element in
this) {\n        sum += selector(element)\n    }\n    return sum\n}\n\n/**\n * Returns a list of pairs built from the
elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n
public infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from

```

the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Array<out R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val size = minOf(size,
other.size)\n    val list = ArrayList<V>(size)\n    for (i in 0 until size) {\n        list.add(transform(this[i], other[i]))\n
}\n    return list\n}\n\n/**\n * Returns a list of 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 * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other:
Iterable<R>): List<Pair<UInt, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Iterable<R>): List<Pair<ULong, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
```

built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other:
Iterable<R>): List<Pair<UByte, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs
built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of
the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other:
Iterable<R>): List<Pair<UShort, R>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
values built from the elements of `this` array and the [other] collection with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of values built from the elements of `this` array and the [other] collection with the same index\n * using the
provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>
UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n    val arraySize = size\n    val list =
ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n    var i = 0\n    for (element in other) {\n        if (i >= arraySize) break\n        list.add(transform(this[i++], element))\n    }\n    return list\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):
List<Pair<UInt, UInt>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray):
List<Pair<ULong, ULong>> {\n    return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray):
```



```

ULongArray.sum(): ULong {
    return storage.sum().toULong()
}
/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sum(): UInt {
    return sumBy { it.toUInt() }
}
/**
 * Returns the sum of all elements in the array.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sum(): UInt {
    return sumBy { it.toUInt() }
}
}
/**
 * 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.
 */
@file:kotlin.jvm.JvmMultifileClass
@file:kotlin.jvm.JvmName("UCollectionsKt")
package kotlin.collections
// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt
// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
import kotlin.ranges.contains
import kotlin.ranges.reversed
/**
 * Returns an array of UByte containing all of the elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UByte>.toUByteArray(): UByteArray {
    val result = UByteArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
/**
 * Returns an array of UInt containing all of the elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UInt>.toUIntArray(): UIntArray {
    val result = UIntArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
/**
 * Returns an array of ULong containing all of the elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<ULong>.toULongArray(): ULongArray {
    val result = ULongArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
/**
 * Returns an array of UShort containing all of the elements of this collection.
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Collection<UShort>.toUShortArray(): UShortArray {
    val result = UShortArray(size)
    var index = 0
    for (element in this)
        result[index++] = element
    return result
}
}
@kotlin.jvm.JvmName("sumOfUInt")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UInt>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}
/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfULong")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<ULong>.sum(): ULong {
    var sum: ULong = 0uL
    for (element in this)
        sum += element
    return sum
}
/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUByte")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UByte>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}
/**
 * Returns the sum of all elements in the collection.
 */
@kotlin.jvm.JvmName("sumOfUShort")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
public fun Iterable<UShort>.sum(): UInt {
    var sum: UInt = 0u
    for (element in this)
        sum += element
    return sum
}
}
/**
 * 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.
 */
@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
}
}

```

```

*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
maxOf(a: UInt, b: UInt, c: UInt): UInt {^n    return maxOf(a, maxOf(b, c))^n}^n/^n/**^n * Returns the greater of three
values.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline
fun maxOf(a: ULong, b: ULong, c: ULong): ULong {^n    return maxOf(a, maxOf(b, c))^n}^n/^n/**^n * Returns the
greater of three values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
maxOf(a: UByte, b: UByte, c: UByte): UByte {^n    return maxOf(a, maxOf(b, c))^n}^n/^n/**^n * Returns the greater
of three values.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {^n    return maxOf(a, maxOf(b, c))^n}^n/^n/**^n *
Returns the smaller of two values.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
minOf(a: UInt, b: UInt): UInt {^n    return if (a <= b) a else b^n}^n/^n/**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: ULong, b: ULong): ULong {^n
return if (a <= b) a else b^n}^n/^n/**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: UByte, b: UByte): UByte {^n
return if (a <= b) a else b^n}^n/^n/**^n * Returns the smaller of two values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun minOf(a: UShort, b: UShort): UShort {^n
return if (a <= b) a else b^n}^n/^n/**^n * Returns the smaller of three values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
minOf(a: UInt, b: UInt, c: UInt): UInt {^n    return minOf(a, minOf(b, c))^n}^n/^n/**^n * Returns the smaller of three
values.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline
fun minOf(a: ULong, b: ULong, c: ULong): ULong {^n    return minOf(a, minOf(b, c))^n}^n/^n/**^n * Returns the
smaller of three values.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
minOf(a: UByte, b: UByte, c: UByte): UByte {^n    return minOf(a, minOf(b, c))^n}^n/^n/**^n * Returns the smaller
of three values.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public
inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {^n    return minOf(a, minOf(b, c))^n}^n/^n/**^n *
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governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.^n
*^@n^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("URangesKt")^n^package
kotlin.ranges^@n/^n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt^@n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib^@n/^nimport kotlin.random.^n/^n/**^n * Returns a
random element from this range.^n * ^n * @throws IllegalArgumentException if this range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntRange.random(): UInt {^n    return random(Random)^n}^n/^n/**^n * Returns a random element from this range.^n
* ^n * @throws IllegalArgumentException if this range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongRange.random(): ULong {^n    return random(Random)^n}^n/^n/**^n * Returns a random element from this
range using the specified source of randomness.^n * ^n * @throws IllegalArgumentException if this range is
empty.^n ^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntRange.random(random:
Random): UInt {^n    try {^n        return random.nextUInt(this)^n    } catch(e: IllegalArgumentException) {^n
throw NoSuchElementException(e.message)^n    }^n}^n/^n/**^n * Returns a random element from this range using
the specified source of randomness.^n * ^n * @throws IllegalArgumentException if this range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun ULongRange.random(random: Random):
ULong {^n    try {^n        return random.nextULong(this)^n    } catch(e: IllegalArgumentException) {^n    throw
NoSuchElementException(e.message)^n    }^n}^n/^n/**^n * Returns a random element from this range, or `null` if this
range is empty.^n
*^@SinceKotlin("1.3")^@ExperimentalStdlibApi^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnl
y^public inline fun UIntRange.randomOrNull(): UInt? {^n    return randomOrNull(Random)^n}^n/^n/**^n * Returns

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a random element from this range, or `null` if this range is empty.

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*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n    return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n    if (isEmpty())\n        return null\n    return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\npublic fun ULongRange.randomOrNull(random: Random): ULong? {\n    if (isEmpty())\n        return null\n    return random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n    return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UByte): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UInt): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n    return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n    return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n    return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * \n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * \n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n    return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * \n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n    return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * \n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n    return UIntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns
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a progression that goes over the same range in the opposite direction with the same step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed():
UIntProgression {\n    return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range in the opposite direction with the same step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed():
ULongProgression {\n    return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a
progression that goes over the same range with the given step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int):
UIntProgression {\n    checkStepIsPositive(step > 0, step)\n    return UIntProgression.fromClosedRange(first, last, if
(this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given
step.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULongProgression.step(step:
Long): ULongProgression {\n    checkStepIsPositive(step > 0, step)\n    return
ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from
this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun
UByte.until(to: UByte): UIntRange {\n    if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n    return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n
if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n    return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a
range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.until(to: ULong): ULongRange {\n
if (to <= ULong.MIN_VALUE) return
ULongRange.EMPTY\n    return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but
excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned
range is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to:
UShort): UIntRange {\n    if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n    return this.toUInt() .. (to -
1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return
this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt):
UInt {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue:
ULong): ULong {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue:
UByte): UByte {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value
is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue:
UShort): UShort {\n    return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the

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[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt):
UInt {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue:
ULong): ULong {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtMost(maximumValue:
UByte): UByte {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue:
UShort): UShort {\n    return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this
value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range,
or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt,
maximumValue: UInt): UInt {\n    if (minimumValue > maximumValue) throw IllegalArgumentException("Cannot
coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.")\n    if (this <
minimumValue) return minimumValue\n    if (this > maximumValue) return maximumValue\n    return
this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n *
@return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong,
maximumValue: ULong): ULong {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte,
maximumValue: UByte): UByte {\n    if (minimumValue > maximumValue) throw
IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n    if (this < minimumValue) return minimumValue\n    if (this > maximumValue)
return maximumValue\n    return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort,
maximumValue: UShort): UShort {\n    if (minimumValue > maximumValue) throw

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IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n  if (this < minimumValue) return minimumValue\n  if (this > maximumValue)
return maximumValue\n  return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range: ClosedRange<UInt>):
UInt {\n  if (range is ClosedFloatingPointRange) {\n    return this.coerceIn<UInt>(range)\n  }\n  if
(range.isEmpty()) throw IllegalArgumentException("Cannot coerce value to an empty range: $range.")\n  return
when {\n    this < range.start -> range.start\n    this > range.endInclusive -> range.endInclusive\n    else ->
this\n  }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the
[range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than
`range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range:
ClosedRange<ULong>): ULong {\n  if (range is ClosedFloatingPointRange) {\n    return
this.coerceIn<ULong>(range)\n  }\n  if (range.isEmpty()) throw IllegalArgumentException("Cannot coerce value
to an empty range: $range.")\n  return when {\n    this < range.start -> range.start\n    this >
range.endInclusive -> range.endInclusive\n    else -> this\n  }\n}\n\n"/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage
kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns the
sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UInt>.sum(): UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<ULong>.sum(): ULong {\n  var sum: ULong = 0uL\n  for (element in this) {\n    sum += element\n
}\n  return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is
_terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UByte>.sum(): UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n * \n * The operation is _terminal_.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Sequence<UShort>.sum(): UInt {\n  var sum: UInt = 0u\n  for (element in this) {\n    sum += element\n  }\n
return sum\n}\n\n"/*\n * Copyright 2010-2015 JetBrains s.r.o.\n * \n * Licensed under the Apache License,
Version 2.0 (the "License");\n * you may not use this file except in compliance with the License.\n * You may
obtain a copy of the License at\n * \n * http://www.apache.org/licenses/LICENSE-2.0\n * \n * Unless required by
applicable law or agreed to in writing, software\n * distributed under the License is distributed on an "AS IS"
BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the
License for the specific language governing permissions and\n * limitations under the License.\n *\n@kotlin.jvm.JvmName("Iterable")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic interface Iterable<out T> {\n  /**\n * Returns an iterator over the elements of this object.\n * \n * @param T the type of element being
iterated over. The iterator is covariant on its element type.\n */\n  public operator fun iterator(): Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n * \n * @param T the type of element being iterated over. The
iterator is covariant on its element type.\n */\npublic interface Iterable<out T> {\n  /**\n * Returns an iterator over the elements of this object.\n * \n * @param T the type of element being
iterated over. The
iterator is covariant on its element type.\n */\n  public operator fun iterator(): Iterator<T>\n}\n\n"/*\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over
and that supports removing elements during iteration.\n * \n * @param T the type of element being iterated over. The
iterator is covariant on its element type.\n */\npublic interface Iterable<out T> {\n  /**\n * Returns an iterator over the elements of this object.\n * \n * @param T the type of element being
iterated over. The
iterator is covariant on its element type.\n */\n  public operator fun iterator(): Iterator<T>\n}\n

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mutable iterator is invariant on its element type.\n *\npublic interface MutableIterable<out T> : Iterable<T> {\n
/**\n * Returns an iterator over the elements of this sequence that supports removing elements during iteration.\n
*\n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection of elements. Methods in this
interface support only read-only access to the collection;\n * read/write access is supported through the
[MutableCollection] interface.\n * @param E the type of elements contained in the collection. The collection is
covariant on its element type.\n *\npublic interface Collection<out E> : Iterable<E> {\n // Query Operations\n
/**\n * Returns the size of the collection.\n *\n public val size: Int\n\n /**\n * Returns `true` if the
collection is empty (contains no elements), `false` otherwise.\n *\n public fun isEmpty(): Boolean\n\n /**\n
* Checks if the specified element is contained in this collection.\n *\n public operator fun contains(element:
@UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n /**\n *
Checks if all elements in the specified collection are contained in this collection.\n *\n public fun
containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of elements
that supports adding and removing elements.\n *\n * @param E the type of elements contained in the collection. The
mutable collection is invariant on its element type.\n *\npublic interface MutableCollection<E> : Collection<E>,
MutableIterable<E> {\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n // Modification
Operations\n /**\n * Adds the specified element to the collection.\n *\n * @return `true` if the element has
been added, `false` if the collection does not support duplicates\n * and the element is already contained in the
collection.\n *\n public fun add(element: E): Boolean\n\n /**\n * Removes a single instance of the
specified element from this\n * collection, if it is present.\n *\n * @return `true` if the element has been
successfully removed; `false` if it was not present in the collection.\n *\n public fun remove(element: E):
Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection to
this collection.\n *\n * @return `true` if any of the specified elements was added to the collection, `false` if the
collection was not modified.\n *\n public fun addAll(elements: Collection<E>): Boolean\n\n /**\n *
Removes all of this collection's elements that are also contained in the specified collection.\n *\n * @return
`true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n
*\n public fun removeAll(elements: Collection<E>): Boolean\n\n /**\n * Retains only the elements in this
collection that are contained in the specified collection.\n *\n * @return `true` if any element was removed
from the collection, `false` if the collection was not modified.\n *\n public fun retainAll(elements:
Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n *\n public fun clear():
Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in this interface support only read-only access
to the list;\n * read/write access is supported through the [MutableList] interface.\n * @param E the type of elements
contained in the list. The list is covariant on its element type.\n *\npublic interface List<out E> : Collection<E> {\n
// Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n override fun
contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n
override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n // Positional Access
Operations\n /**\n * Returns the element at the specified index in the list.\n *\n public operator fun
get(index: Int): E\n\n // Search Operations\n /**\n * Returns the index of the first occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n *\n public fun
indexOf(element: @UnsafeVariance E): Int\n\n /**\n * Returns the index of the last occurrence of the specified
element in the list, or -1 if the specified\n * element is not contained in the list.\n *\n public fun
lastIndexOf(element: @UnsafeVariance E): Int\n\n // List Iterators\n /**\n * Returns a list iterator over the
elements in this list (in proper sequence).\n *\n public fun listIterator(): ListIterator<E>\n\n /**\n * Returns
a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n *\n public
fun listIterator(index: Int): ListIterator<E>\n\n // View\n /**\n * Returns a view of the portion of this list
between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n * The returned list is backed by this
list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n *\n * Structural
changes in the base list make the behavior of the view undefined.\n *\n public fun subList(fromIndex: Int,
toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered collection of elements that supports adding and removing

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elements.\n * @param E the type of elements contained in the list. The mutable list is invariant on its element
type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification Operations\n
/**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always
modified as the result of this operation.\n *\n override fun add(element: E): Boolean\n\n override fun
remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the
specified collection to the end of this list.\n *\n * The elements are appended in the order they appear in the
[elements] collection.\n *\n * @return `true` if the list was changed as the result of the operation.\n *\n
override fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Inserts all of the elements of the specified
collection [elements] into this list at the specified [index].\n *\n * @return `true` if the list was changed as the
result of the operation.\n *\n public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n override
fun removeAll(elements: Collection<E>): Boolean\n\n override fun retainAll(elements: Collection<E>): Boolean\n\n
override fun clear(): Unit\n\n // Positional Access Operations\n /**\n * Replaces the element at the specified
position in this list with the specified element.\n *\n * @return the element previously at the specified
position.\n *\n public operator fun set(index: Int, element: E): E\n\n /**\n * Inserts an element into the list
at the specified [index].\n *\n public fun add(index: Int, element: E): Unit\n\n /**\n * Removes an element
at the specified [index] from the list.\n *\n * @return the element that has been removed.\n *\n public fun
removeAt(index: Int): E\n\n // List Iterators\n override fun listIterator(): MutableListIterator<E>\n\n override
fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n override fun subList(fromIndex: Int, toIndex:
Int): MutableList<E>}\n\n/**\n * A generic unordered collection of elements that does not support duplicate
elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported
through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant on
its element type.\n */\npublic interface Set<out E> : Collection<E> {\n // Query Operations\n\n override val size:
Int\n\n override fun isEmpty(): Boolean\n\n override fun contains(element: @UnsafeVariance E): Boolean\n\n
override fun iterator(): Iterator<E>\n\n // Bulk Operations\n\n override fun containsAll(elements:
Collection<@UnsafeVariance E>): Boolean\n\n}\n\n/**\n * A generic unordered collection of elements that does not
support duplicate elements, and supports\n * adding and removing elements.\n * @param E the type of elements
contained in the set. The mutable set is invariant on its element type.\n */\npublic interface MutableSet<E> :
Set<E>, MutableCollection<E> {\n // Query Operations\n\n override fun iterator(): MutableIterator<E>\n\n //
Modification Operations\n\n /**\n * Adds the specified element to the set.\n *\n * @return `true` if the
element has been added, `false` if the element is already contained in the set.\n *\n override fun add(element:
E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n\n override
fun addAll(elements: Collection<E>): Boolean\n\n override fun removeAll(elements: Collection<E>): Boolean\n\n
override fun retainAll(elements: Collection<E>): Boolean\n\n override fun clear(): Unit\n\n}\n\n/**\n * A collection
that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each
key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only
read-only access to the map; read-write access is supported through\n * the [MutableMap] interface.\n * @param K
the type of map keys. The map is invariant on its key type, as it\n * can accept key as a parameter (of
[containsKey] for example) and return it in [keys] set.\n * @param V the type of map values. The map is covariant
on its value type.\n */\npublic interface Map<K, out V> {\n // Query Operations\n\n /**\n * Returns the number
of key/value pairs in the map.\n *\n public val size: Int\n\n /**\n * Returns `true` if the map is empty
(contains no elements), `false` otherwise.\n *\n public fun isEmpty(): Boolean\n\n /**\n * Returns `true` if
the map contains the specified [key].\n *\n public fun containsKey(key: K): Boolean\n\n /**\n * Returns
`true` if the map maps one or more keys to the specified [value].\n *\n public fun containsValue(value:
@UnsafeVariance V): Boolean\n\n /**\n * Returns the value corresponding to the given [key], or `null` if such
a key is not present in the map.\n *\n public operator fun get(key: K): V?\n\n /**\n * Returns the value
corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n *\n *\n * @since
JDK 1.8\n *\n @SinceKotlin("1.1")\n @PlatformDependent\n public fun getOrDefault(key: K, defaultValue:
@UnsafeVariance V): V {\n // See default implementation in JDK sources\n\n return null as V\n }\n\n //

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Views\n /**\n * Returns a read-only [Set] of all keys in this map.\n */\n public val keys: Set<K>\n\n /**\n * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate
values.\n */\n public val values: Collection<V>\n\n /**\n * Returns a read-only [Set] of all key/value pairs
in this map.\n */\n public val entries: Set<Map.Entry<K, V>>\n\n /**\n * Represents a key/value pair held
by a [Map].\n */\n public interface Entry<out K, out V> {\n /**\n * Returns the key of this key/value
pair.\n */\n public val key: K\n\n /**\n * Returns the value of this key/value pair.\n */\n
public val value: V\n }\n\n/**\n * A modifiable collection that holds pairs of objects (keys and values) and
supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one
value for each key.\n * @param K the type of map keys. The map is invariant on its key type.\n * @param V the
type of map values. The mutable map is invariant on its value type.\n */\n public interface MutableMap<K, V> :
Map<K, V> {\n // Modification Operations\n /**\n * Associates the specified [value] with the specified [key]
in the map.\n * @return the previous value associated with the key, or `null` if the key was not present in
the map.\n */\n public fun put(key: K, value: V): V?\n\n /**\n * Removes the specified key and its
corresponding value from this map.\n * @return the previous value associated with the key, or `null` if the
key was not present in the map.\n */\n public fun remove(key: K): V?\n\n /**\n * Removes the entry for the
specified key only if it is mapped to the specified value.\n * @return true if entry was removed\n */\n
@SinceKotlin("1.1")\n @PlatformDependent\n public fun remove(key: K, value: V): Boolean {\n // See
default implementation in JDK sources\n return true\n }\n\n // Bulk Modification Operations\n /**\n *
Updates this map with key/value pairs from the specified map [from].\n */\n public fun putAll(from: Map<out
K, V>): Unit\n\n /**\n * Removes all elements from this map.\n */\n public fun clear(): Unit\n\n //
Views\n /**\n * Returns a [MutableSet] of all keys in this map.\n */\n override val keys:
MutableSet<K>\n\n /**\n * Returns a [MutableCollection] of all values in this map. Note that this collection
may contain duplicate values.\n */\n override val values: MutableCollection<V>\n\n /**\n * Returns a
[MutableSet] of all key/value pairs in this map.\n */\n override val entries:
MutableSet<MutableMap.MutableEntry<K, V>>\n\n /**\n * Represents a key/value pair held by a
[MutableMap].\n */\n public interface MutableEntry<K, V> : Map.Entry<K, V> {\n /**\n * Changes
the value associated with the key of this entry.\n * @return the previous value corresponding to the
key.\n */\n public fun setValue(newValue: V): V\n }\n\n", "\n * Copyright 2010-2019 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. */\n public abstract class ByteIterator :
Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in the sequence without
boxing. */\n public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of values of type `Char`.
*/\n public abstract class CharIterator : Iterator<Char> {\n override final fun next() = nextChar()\n\n /** Returns
the next value in the sequence without boxing. */\n public abstract fun nextChar(): Char\n}\n\n/** An iterator over
a sequence of values of type `Short`. */\n public abstract class ShortIterator : Iterator<Short> {\n override final fun
next() = nextShort()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`. */\n public abstract class IntIterator :
Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the next value in the sequence without
boxing. */\n public abstract fun nextInt(): Int\n}\n\n/** An iterator over a sequence of values of type `Long`.
*/\n public abstract class LongIterator : Iterator<Long> {\n override final fun next() = nextLong()\n\n /** Returns
the next value in the sequence without boxing. */\n public abstract fun nextLong(): Long\n}\n\n/** An iterator
over a sequence of values of type `Float`. */\n public abstract class FloatIterator : Iterator<Float> {\n override final
fun next() = nextFloat()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextFloat(): Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\n public abstract class
DoubleIterator : Iterator<Double> {\n override final fun next() = nextDouble()\n\n /** Returns the next value in
the sequence without boxing. */\n public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence
of values of type `Boolean`. */\n public abstract class BooleanIterator : Iterator<Boolean> {\n override final fun

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next() = nextBoolean()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextBoolean(): Boolean\n}\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * An
iterator over a progression of values of type `Char`.\n * @property step the number by which the value is
incremented on each step.\n */\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) :
CharIterator() {\n private val finalElement = last.toInt()\n private var hasNext: Boolean = if (step > 0) first <=
last else first >= last\n private var next = if (hasNext) first.toInt() else finalElement\n\n override fun hasNext():
Boolean = hasNext\n\n override fun nextChar(): Char {\n val value = next\n if (value == finalElement)
{\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n
next += step\n }\n return value.toChar()\n }\n}\n\n/**\n * An iterator over a progression of values of
type `Int`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class
IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n private val finalElement = last\n private
var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first else
finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextInt(): Int {\n val value =
next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n
hasNext = false\n }\n else {\n next += step\n }\n return value\n }\n}\n\n/**\n * An iterator
over a progression of values of type `Long`.\n * @property step the number by which the value is incremented on
each step.\n */\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n
private val finalElement = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n
private var next = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n
override fun nextLong(): Long {\n val value = next\n if (value == finalElement) {\n if (!hasNext)
throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n
return value\n }\n}\n\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class
CharProgression\n internal constructor\n (\n start: Char,\n endInclusive: Char,\n step: Int\n
): Iterable<Char> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException("\u0027Step must be non-
zero.\u0027")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("\u0027Step must be greater than
Int.MIN_VALUE to avoid overflow on negation.\u0027")\n }\n\n /**\n * The first element in the progression.\n
*/\n public val first: Char = start\n\n /**\n * The last element in the progression.\n */\n public val last:
Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\n\n /**\n * The step of the
progression.\n */\n public val step: Int = step\n\n override fun iterator(): CharIterator =
CharProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. */\n public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n
other is CharProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.toInt() +
last.toInt()) + step)\n\n override fun toString(): String = if (step > 0) "\u0024first..\u0024last step \u0024step" else "\u0024first downTo
\u0024last step \u0024{-step}"\n\n companion object {\n /**\n * Creates CharProgression within the specified
bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes toward the
[rangeEnd] value not excluding it, with the specified [step].\n\n * In order to go backwards the [step] must be
negative.\n\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n\n */\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression =
CharProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic
open class IntProgression\n internal constructor\n (\n start: Int,\n endInclusive: Int,\n step:
Int\n ): Iterable<Int> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException("\u0027Step must be non-
zero.\u0027")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("\u0027Step must be greater than

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Int.MIN_VALUE to avoid overflow on negation.}")\n } \n\n /**\n * The first element in the progression.\n *\n public val first: Int = start\n\n /**\n * The last element in the progression.\n *\n public val last: Int =
getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n\n /**\n * The step of the
progression.\n *\n public val step: Int = step\n\n override fun iterator(): IntIterator =
IntProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. *\n public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n
other is IntProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first + last) +
step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step $-
step)\n\n companion object {\n\n /**\n * Creates IntProgression within the specified bounds of a closed
range.\n\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not
excluding it, with the specified [step].\n\n * In order to go backwards the [step] must be negative.\n\n *\n
* [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n\n *\n public fun
fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd,
step)\n } \n\n\n/**\n * A progression of values of type `Long`. \n *\n public open class LongProgression\n
internal constructor\n (\n start: Long,\n endInclusive: Long,\n step: Long\n ) :
Iterable<Long> {\n init {\n if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-
zero.\")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than
Long.MIN_VALUE to avoid overflow on negation.\")\n } \n\n\n /**\n * The first element in the progression.\n
*\n public val first: Long = start\n\n /**\n * The last element in the progression.\n *\n public val last:
Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n\n /**\n * The step
of the progression.\n *\n public val step: Long = step\n\n override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. *\n public open fun
isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n
other is LongProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&
step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr
32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n override fun toString(): String = if (step > 0)
\"$first..$last step $step\" else \"$first downTo $last step $-step)\n\n companion object {\n\n /**\n *
Creates LongProgression within the specified bounds of a closed range.\n\n * The progression starts with the
[rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n\n * In order
to go backwards the [step] must be negative.\n\n *\n * [step] must be greater than `Long.MIN_VALUE` and
not equal to zero.\n\n *\n public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long):
LongProgression = LongProgression(rangeStart, rangeEnd, step)\n } \n\n\n\"/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.ranges\n\n/**\n *
Represents a range of values (for example, numbers or characters).\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n *\n public interface
ClosedRange<T: Comparable<T>> {\n\n /**\n * The minimum value in the range.\n *\n public val start:
T\n\n /**\n * The maximum value in the range (inclusive).\n *\n public val endInclusive: T\n\n /**\n *
Checks whether the specified [value] belongs to the range.\n *\n public operator fun contains(value: T):
Boolean = value >= start && value <= endInclusive\n\n /**\n * Checks whether the range is empty.\n *\n
public fun isEmpty(): Boolean = start > endInclusive\n } \n\n\n\"/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n
Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in
compliance with the License.\n * You may obtain a copy of the License at\n *\n *
http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing,
software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language
governing permissions and\n * limitations under the License.\n *\n\npackage kotlin\n\n\n/**\n * The type with only

```


one value: the `Unit` object. This type corresponds to the `void` type in Java.

```


^public object Unit {
    override
    fun toString() = "kotlin.Unit"
}
"
" * Copyright 2010-2015 JetBrains s.r.o.
" * Licensed under the
Apache License, Version 2.0 (the "License");
" * you may not use this file except in compliance with the
License.
" * You may obtain a copy of the License at
" * http://www.apache.org/licenses/LICENSE-2.0
" * Unless required by applicable law or agreed to in writing, software
" * distributed under the License is distributed
on an "AS IS" BASIS,
" * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.
" * See the License for the specific language governing permissions and
" * limitations under the
License.
^package kotlin.annotation
^import kotlin.annotation.AnnotationTarget.*
^ Contains the
list of code elements which are the possible annotation targets
^public enum class AnnotationTarget {
    /**
    Class, interface or object, annotation class is also included
    ^ CLASS,
    /** Annotation class only
    ^ ANNOTATION_CLASS,
    /** Generic type parameter (unsupported yet)
    ^ TYPE_PARAMETER,
    /**
    Property
    ^ PROPERTY,
    /** Field, including property's backing field
    ^ FIELD,
    /** Local variable
    ^ LOCAL_VARIABLE,
    /** Value parameter of a function or a constructor
    ^ VALUE_PARAMETER,
    /** Constructor only (primary or secondary)
    ^ CONSTRUCTOR,
    /**
    Function (constructors are not included)
    ^ FUNCTION,
    /** Property getter only
    ^ PROPERTY_GETTER,
    /** Property setter only
    ^ PROPERTY_SETTER,
    /** Type usage
    ^ TYPE,
    /** Any expression
    ^ EXPRESSION,
    /** File
    ^ FILE,
    /** Type alias
    ^ TYPEALIAS
}
^ Contains the list of possible annotation's retentions.
^ Determines how an annotation is stored in binary output.
^public enum class AnnotationRetention {
    /**
    Annotation isn't stored in binary output
    ^ SOURCE,
    /** Annotation is stored in binary output, but invisible
for reflection
    ^ BINARY,
    /** Annotation is stored in binary output and visible for reflection (default
retention)
    ^ RUNTIME
}
^ This meta-annotation indicates the kinds of code elements which are
possible targets of an annotation.
^ If the target meta-annotation is not present on an annotation declaration,
the annotation is applicable to the following elements:
^ [CLASS], [PROPERTY], [FIELD],
[LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER],
[PROPERTY_SETTER].
^ @property allowedTargets list of allowed annotation targets
^ @Target(AnnotationTarget.ANNOTATION_CLASS)
^ @MustBeDocumented
^public annotation class
Target(vararg val allowedTargets: AnnotationTarget)
^ This meta-annotation determines whether an
annotation is stored in binary output and visible for reflection. By default, both are true.
^ @property value
necessary annotation retention (RUNTIME, BINARY or SOURCE)
^ @Target(AnnotationTarget.ANNOTATION_CLASS)
^public annotation class Retention(val value:
AnnotationRetention = AnnotationRetention.RUNTIME)
^ This meta-annotation determines that an
annotation is applicable twice or more on a single code element
^ @Target(AnnotationTarget.ANNOTATION_CLASS)
^public annotation class Repeatable
^ This
meta-annotation determines that an annotation is a part of public API and therefore should be included in the
generated
^ documentation for the element to which the annotation is applied.
^ @Target(AnnotationTarget.ANNOTATION_CLASS)
^public annotation class MustBeDocumented
"
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" * you may not use this file except in compliance with the License.
" * You may obtain a copy of the License at
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" * Unless required by applicable law or agreed to in writing,
software
" * distributed under the License is distributed on an "AS IS" BASIS,
" * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.
" * See the License for the specific language
governing permissions and
" * limitations under the License.
^package kotlin.internal
^ Specifies
that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks
" * That means
it's completely safe to use generic types as argument for such parameter.
^ @Target(AnnotationTarget.TYPE_PARAMETER)
^ @Retention(AnnotationRetention.BINARY)
^internal
annotation class PureReifiable
^ Specifies that the corresponding built-in method exists depending on
platform.
" * Current implementation for JVM looks whether method with same JVM descriptor exists in the


```

```

module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method
'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation
class PlatformDependent{\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.internal\n// a mod b (in arithmetical sense)\nprivate fun mod(a:
Int, b: Int): Int {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\nprivate fun mod(a: Long, b:
Long): Long {\n    val mod = a % b\n    return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun
differenceModulo(a: Int, b: Int, c: Int): Int {\n    return mod(mod(a, c) - mod(b, c), c)\n}\nprivate fun
differenceModulo(a: Long, b: Long, c: Long): Long {\n    return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n *
Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in
the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n *
[step].\n * No validation on passed parameters is performed. The given parameters should satisfy the
condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start
first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or
difference of successive elements in the progression\n * @return the final element of the progression\n *
@suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when
{\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if (start <= end)
end else end + differenceModulo(start, end, -step)\n    else -> throw kotlin.IllegalArgumentException("Step is
zero.")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the
progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case
of a negative\n * [step].\n * No validation on passed parameters is performed. The given parameters should
satisfy the condition:\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param
start first element of the progression\n * @param end ending bound for the progression\n * @param step
increment, or difference of successive elements in the progression\n * @return the final element of the progression\n
*\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long):
Long = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n    step < 0 -> if
(start <= end) end else end + differenceModulo(start, end, -step)\n    else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n", "/*\n * Copyright 2010-2015 JetBrains s.r.o.\n * Licensed
under the Apache License, Version 2.0 (the "License");\n * you may not use this file except in
compliance with the License.\n * You may obtain a copy of the License at\n *
http://www.apache.org/licenses/LICENSE-2.0\n * Unless required by applicable law or agreed to in writing,
software\n * distributed under the License is distributed on an "AS IS" BASIS,\n * WITHOUT WARRANTIES
OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language
governing permissions and\n * limitations under the License.\n */\npackage kotlin.reflect\n/**\n * Represents a
parameter passed to a function or a property getter/setter,\n * including `this` and extension receiver parameters.\n
*\n */\npublic interface KParameter : KAnnotatedElement {\n    /**\n     * 0-based index of this parameter in the
parameter list of its containing callable.\n     */\n    public val index: Int\n    /**\n     * Name of this parameter as it
was declared in the source code,\n     * or `null` if the parameter has no name or its name is not available at
runtime.\n     * Examples of nameless parameters include `this` instance for member functions,\n     * extension
receiver for extension functions or properties, parameters of Java methods\n     * compiled without the debug
information, and others.\n     */\n    public val name: String?\n    /**\n     * Type of this parameter. For a `vararg`
parameter, this is the type of the corresponding array,\n     * not the individual element.\n     */\n    public val type:
KType\n    /**\n     * Kind of this parameter.\n     */\n    public val kind: Kind\n    /**\n     * Kind represents a
particular position of the parameter declaration in the source code,\n     * such as an instance, an extension receiver
parameter or a value parameter.\n     */\n    public enum class Kind {\n        /** Instance required to make a call to
the member, or an outer class instance for an inner class constructor. */\n        INSTANCE,\n        /** Extension
receiver of an extension function or property. */\n        EXTENSION_RECEIVER,\n        /** Ordinary named

```

value parameter. `*VALUE, }` `/** 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. `2`. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional. `public val isOptional: Boolean` `/** true` if this parameter is `vararg`. `*` See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs) for more information. `@SinceKotlin("1.1")` `public val isVararg: Boolean` `"/` `*` Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors. `*` Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. `package kotlin.reflect` `/**` `*` Represents a type. Type is usually either a class with optional type arguments, `*` or a type parameter of some declaration, plus nullability. `public interface KType : KAnnotatedElement` `{` `/**` `*` The declaration of the classifier used in this type. `*` For example, in the type `List<String>` the classifier would be the [KClass] instance for `List`. `*` Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type. `@SinceKotlin("1.1")` `public val classifier: KClassifier?` `/**` `*` Type arguments passed for the parameters of the classifier in this type. `*` For example, in the type `Array<out Number>` the only type argument is `out Number`. `*` In case 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. `*` For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`. `@SinceKotlin("1.1")` `public val arguments: List<KTypeProjection>` `/**` `*` `true` if this type was marked nullable in the source code. `*` For Kotlin types, it means that `null` value is allowed to be represented by this type. `*` In practice it means that the type was declared with a question mark at the end. `*` For non-Kotlin types, it means the type or the symbol which was declared with this type `*` is annotated with a runtime-retained nullability annotation such as `[javax.annotation.Nullable]`. `*` Note that even if `[isMarkedNullable]` is false, values of the type can still be `null`. `*` This may happen if it is a type of the type parameter with a nullable upper bound: `fun <T> foo(t: T) {` `// isMarkedNullable == false for t's type, but t can be null here when T = `Any`` `}` `public val isMarkedNullable: Boolean` `/**` `*` Represents a type projection. Type projection is usually the argument to another type in a type usage. `*` For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`. `*` Type projection is either the star projection, or an entity consisting of a specific type plus optional variance. `*` See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections) for more information. `@SinceKotlin("1.1")` `public data class KTypeProjection constructor(` `/**` `*` The use-site variance specified in the projection, or `null` if this is a star projection. `public val variance: KVariance?` `/**` `*` The type specified in the projection, or `null` if this is a star projection. `public val type: KType?` `{` `public companion object` `{` `/**` `*` Star projection, denoted by the `*` character. `*` 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. `public val STAR: KTypeProjection = KTypeProjection(null, null)` `/**` `*` 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>`, `String` is an invariant projection of the type represented by the class `String`. `public fun invariant(type: KType): KTypeProjection = KTypeProjection(KVariance.INVARIANT, type)` `/**` `*` Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type. `*` For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`. `public fun contravariant(type: KType): KTypeProjection = KTypeProjection(KVariance.IN, type)` `/**` `*` Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type. `*` For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`. `public fun covariant(type: KType): KTypeProjection =`


```

NoSuchElementException("$index")\n}\n\n@JsName("charArrayIterator")\ninternal fun charArrayIterator(array:
CharArray) = object : CharIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override
fun nextChar() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("intArrayIterator")\ninternal fun intArrayIterator(array:
IntArray) = object : IntIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n    override fun
nextInt() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("floatArrayIterator")\ninternal fun
floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n    var index = 0\n    override fun hasNext() = index
< array.size\n    override fun nextFloat() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("doubleArrayIterator")\ninternal fun
doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n    var index = 0\n    override fun hasNext()
= index < array.size\n    override fun nextDouble() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("longArrayIterator")\ninternal fun longArrayIterator(array:
LongArray) = object : LongIterator() {\n    var index = 0\n    override fun hasNext() = index < array.size\n
override fun nextLong() = if (index < array.size) array[index++] else throw
NoSuchElementException("$index")\n}\n\n@JsName("PropertyMetadata")\ninternal class
PropertyMetadata(@JsName("callableName") val name:
String)\n\n@JsName("noWhenBranchMatched")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName("subSequence")\ninternal fun subSequence(c: CharSequence,
startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n        return c.substring(startIndex, endIndex)\n
    } else {\n        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n
    }\n}\n\n@JsName("captureStack")\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance:
Throwable) {\n    if (js("Error").captureStackTrace) {\n        js("Error").captureStackTrace(instance,
instance::class.js);\n    } else {\n        instance.asDynamic().stack = js("new Error()").stack;\n
    }\n}\n\n@JsName("newThrowable")\ninternal fun newThrowable(message: String?, cause: Throwable?):
Throwable {\n    val throwable = js("new Error()")\n    throwable.message = if (jsTypeOf(message) ==
"undefined") {\n        if (cause != null) cause.toString() else null\n    } else {\n        message\n    }\n
throwable.cause = cause\n    throwable.name = "Throwable"\n    return
throwable\n}\n\n@JsName("BoxedChar")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n    override
fun equals(other: Any?): Boolean {\n        return other is BoxedChar && c == other.c\n    }\n    override fun
hashCode(): Int {\n        return c\n    }\n    override fun toString(): String {\n        return
js("this.c").unsafeCast<Char>().toString()\n    }\n    override fun compareTo(other: Int): Int {\n        return
js("this.c - other").unsafeCast<Int>()\n    }\n    @JsName("valueOf")\n    public fun valueOf(): Int {\n
return c\n    }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n    val typed
= js("Array")(args.size)\n    for (i in args.indices) {\n        val arr = args[i]\n        if (arr !is Array<*>) {\n
typed[i] = js("[]").slice.call(arr)\n        } else {\n            typed[i] = arr\n        }\n    }\n    return
js("[]").concat.apply(js("[]"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n
*/\n\n@PublishedApi\n@JsName("arrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal fun <T>
arrayConcat(a: T, b: T): T {\n    return concat(js("arguments"))\n}\n\n/** Concat primitive arrays. Main use:
prepare vararg arguments.\n
* For compatibility with 1.1.0 the arguments may be a mixture of Array's and
TypedArray's.\n
* If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray)
returns a TypedArray, otherwise an Array.\n
* If the first argument has the $type$ property (Boolean-, Char-, and
LongArray) copy its value to result.$type$.\n
* If the first argument is a regular Array without the $type$ property
default to arrayConcat.\n
*/\n\n@PublishedApi\n@JsName("primitiveArrayConcat")\n@Suppress("UNUSED_PARAMETER")\ninternal
fun <T> primitiveArrayConcat(a: T, b: T): T {\n    val args: Array<T> = js("arguments")\n    if (a is Array<*> &&
a.asDynamic().`$type$` === undefined) {\n        return concat(args)\n    } else {\n        var size = 0\n        for (i in
args.indices) {\n            size += args[i].asDynamic().length as Int\n        }\n        val result = js("new

```

```

a.constructor(size)")\n    kotlin.copyArrayType(a, result)\n    size = 0\n    for (i in args.indices) {\n        val
arr = args[i].asDynamic()\n        for (j in 0 until arr.length) {\n            result[size++] = arr[j]\n        }\n    }\n
return result\n    }\n}\n\n@JsName("booleanArrayOf")\ninternal fun booleanArrayOf() =
withType("BooleanArray", js("[]slice.call(arguments)")\n)\n\n@JsName("charArrayOf") // The arguments have
to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType("CharArray", js("new
Uint16Array([]slice.call(arguments))"))\n\n@JsName("longArrayOf")\ninternal fun longArrayOf() =
withType("LongArray",
js("[]slice.call(arguments)")\n)\n\n@JsName("withType")\n@kotlin.internal.InlineOnly\ninternal inline fun
withType(type: String, array: dynamic): dynamic {\n    array.`$type$` = type\n    return array\n}, /*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n *
Function corresponding to JavaScript's `typeof` operator\n
*\n\n@kotlin.internal.InlineOnly\n@Suppress("UNUSED_PARAMETER")\npublic inline fun jsTypeOf(a: Any?):
String = js("typeof a")\n}, /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:Suppress("UNUSED_PARAMETER",
"NOTHING_TO_INLINE")\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n
*\n\npublic inline fun <T> emptyArray(): Array<T> = js("[]")\n\n@library\npublic fun <T> arrayOf(vararg
elements: T): Array<T> = definedExternally\n\n@library\npublic fun doubleArrayOf(vararg elements: Double):
DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray =
definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray =
definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray =
definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray =
definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray =
definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray =
definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray =
definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function
[initializer].\n *\n\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n *
Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n\n* The [mode]
parameter is ignored.\n\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n\n* The [lock] parameter is ignored.\n\npublic actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n    val srcLen: Int = src.length\n    val dstLen: Int = dst.length\n    var index: Int = 0\n    while (index <
srcLen && index < dstLen) dst[index] = src[index++]\n    return dst\n}\n\n\ninternal fun arrayCopyResize(source:
dynamic, newSize: Int, defaultValue: Any?): dynamic {\n    val result = source.slice(0, newSize)\n
copyArrayType(source, result)\n    var index: Int = source.length\n    if (newSize > index) {\n        result.length =
newSize\n        while (index < newSize) result[index++] = defaultValue\n    }\n    return result\n}\n\n\ninternal fun
<T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n    val result = array.slice()\n
result.length += collection.size\n    copyArrayType(array, result)\n    var index: Int = array.length\n    for (element in
collection) result[index++] = element\n    return result\n}\n\n\ninternal fun <T> fillFromCollection(dst: dynamic,
startIndex: Int, collection: Collection<T>): dynamic {\n    var index = startIndex\n    for (element in collection)
dst[index++] = element\n    return dst\n}\n\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n    if
(from.`$type$` !== undefined) {\n        to.`$type$` = from.`$type$`\n    }\n}\n\n\ninternal inline fun jsIsType(obj:
dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass), /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n@JsName("CoroutineImpl")\n

```

```

internal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{
    protected var state = 0
    protected var exceptionState = 0
    protected var result: Any? = null
    protected var exception: Throwable? = null
    protected var finallyPath: Array<Int>? = null
    public override val context: CoroutineContext = resultContinuation.context
    private var intercepted_: Continuation<Any?>? = null
    public fun intercepted(): Continuation<Any?> = intercepted_ ?:
    (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)
    .also { intercepted_ = it }
    override fun resumeWith(result: Result<Any?>) {
        var current = this
        var currentResult: Any? = result.getOrNull()
        var currentException: Throwable? = result.exceptionOrNull()
        // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume
        while (true) {
            with(current) {
                val completion = resultContinuation
                // Set result and exception fields in the current continuation
                if (currentException == null) {
                    this.result = currentResult
                } else {
                    state = exceptionState
                    exception = currentException
                }
            }
            try {
                val outcome = doResume()
                if (outcome === COROUTINE_SUSPENDED)
                    return currentResult = outcome
                    currentException = null
            } catch (exception: dynamic) {
                // Catch all exceptions
                currentResult = null
                currentException = exception.unsafeCast<Throwable>()
            }
            releaseIntercepted() // this state machine instance is terminating
            if (completion is CoroutineImpl) {
                // unrolling recursion via loop
                current = completion
            } else {
                // top-level completion reached -- invoke and return
                currentException?.let {
                    completion.resumeWithException(it)
                } ?:
                completion.resume(currentResult)
                return
            }
        }
    }
    private fun releaseIntercepted() {
        val intercepted = intercepted_
        if (intercepted != null && intercepted !== this) {
            context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)
        }
        this.intercepted_ = CompletedContinuation // just in case
    }
}
protected abstract fun doResume(): Any?
}
internal object CompletedContinuation : Continuation<Any?> {
    override val context: CoroutineContext
    get() = error("This continuation is already complete")
    override fun resumeWith(result: Result<Any?>) {
        error("This continuation is already complete")
    }
    override fun toString(): String = "This continuation is already complete"
}
/*
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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:Suppress("UNCHECKED_CAST", "RedundantVisibilityModifier")
package kotlin
import kotlin.contracts.*
import kotlin.internal.InlineOnly
import kotlin.jvm.JvmField
/**
 * A discriminated union that encapsulates a successful outcome with a value of type [T] or a failure with an arbitrary [Throwable] exception.
 */
@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS")
@SinceKotlin("1.3")
public inline class Result<out T> @PublishedApi internal constructor(
    @PublishedApi internal val value: Any?,
) : Serializable {
    // discovery
    /**
     * Returns `true` if this instance represents a successful outcome.
     * In this case [isFailure] returns `false`.
     */
    public val isSuccess: Boolean
    get() = value !is Failure

    /**
     * Returns `true` if this instance represents a failed outcome.
     * In this case [isSuccess] returns `false`.
     */
    public val isFailure: Boolean
    get() = value is Failure

    // value & exception retrieval
    /**
     * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null` if it is [failure][Result.isFailure].
     */
    * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).
    @InlineOnly
    public inline fun getOrNull(): T? = when {
        isFailure -> null
        else -> value as T
    }
    /**
     * Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null` if it is [success][isSuccess].
     */
    * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).
    public fun exceptionOrNull(): Throwable? = when (value) {
        is Failure -> value.exception
        else -> null
    }
    /**
     * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess] where `v` is a string representation of the value or a string `Failure(x)` if it is [failure][isFailure] where `x` is a string representation of the exception.
     */
    public override fun toString():

```

```

String =\n    when (value) {\n        is Failure -> value.toString() // \"Failure($exception)\"\n    } else ->
\"Success($value)\"\n    }\n\n // companion with constructors\n\n /**\n * Companion object for [Result]
class that contains its constructor functions\n * [success] and [failure].\n * /\n public companion object {\n
/**\n * Returns an instance that encapsulates the given [value] as successful value.\n * /\n
@InlineOnly\n    public inline fun <T> success(value: T): Result<T> =\n        Result(value)\n\n    /**\n * Returns an instance that encapsulates the given [Throwable] [exception] as failure.\n * /\n    @InlineOnly\n
    public inline fun <T> failure(exception: Throwable): Result<T> =\n        Result(createFailure(exception))\n
}\n\n    internal class Failure(\n        @JvmField\n        val exception: Throwable\n    ): Serializable {\n        override
fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\n        override fun
hashCode(): Int = exception.hashCode()\n        override fun toString(): String = \"Failure($exception)\"\n
}\n}\n\n/**\n * Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not
exposed in ABI.\n * /\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun createFailure(exception: Throwable):
Any =\n    Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function
minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-
augmenting logic here (if needed).\n * /\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun
Result<*>.throwOnFailure() {\n    if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the
specified function [block] and returns its encapsulated result if invocation was successful,\n * catching any
[Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n
*\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\n
return try {\n    Result.success(block())\n} catch (e: Throwable) {\n    Result.failure(e)\n}\n}\n\n/**\n *
Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation
was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and
encapsulating it as a failure.\n * /\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T, R>
T.runCatching(block: T.() -> R): Result<R> {\n    return try {\n        Result.success(block())\n    } catch (e:
Throwable) {\n        Result.failure(e)\n    }\n}\n\n// -- extensions ---\n\n/**\n * Returns the encapsulated value if this
instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception\n * if it is
[failure][Result.isFailure].\n * /\n * This function is a shorthand for `getOrNull { throw it }` (see [getOrNull]).\n
*\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n
throwOnFailure()\n    return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents
[success][Result.isSuccess] or the\n * result of [onFailure] function for the encapsulated [Throwable] exception if it
is [failure][Result.isFailure].\n * /\n * Note, that this function rethrows any [Throwable] exception thrown by
[onFailure] function.\n * /\n * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see
[fold]).\n * /\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrNull(onFailure:
(exception: Throwable) -> R): R {\n    contract {\n        callsInPlace(onFailure,
InvocationKind.AT_MOST_ONCE)\n    }\n    return when (val exception = exceptionOrNull()) {\n        null ->
value as T\n        else -> onFailure(exception)\n    }\n}\n\n/**\n * Returns the encapsulated value if this instance
represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n * /\n * This
function is a shorthand for `getOrNull { defaultValue }` (see [getOrNull]).\n
*\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R):
R {\n    if (isFailure) return defaultValue\n    return value as T\n}\n\n/**\n * Returns the result of [onSuccess] for the
encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for
the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n * /\n * Note, that this function rethrows
any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n
*\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.fold(\n    onSuccess: (value: T) ->
R,\n    onFailure: (exception: Throwable) -> R\n): R {\n    contract {\n        callsInPlace(onSuccess,
InvocationKind.AT_MOST_ONCE)\n        callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n    }\n    return when (val exception = exceptionOrNull()) {\n        null -> onSuccess(value as T)\n        else ->
onFailure(exception)\n    }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given

```


[transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T>
Result<T>.map(transform: (value: T) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when {\n isSuccess -> Result.success(transform(value as T))\n else -> Result(value)\n }\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [map] for an alternative that rethrows exceptions from `transform` function.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n return when {\n isSuccess -> runCatching { transform(value as T) }\n else -> Result(value)\n }\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [recoverCatching] for an alternative that encapsulates exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> Result.success(transform(exception))\n }\n }\n }\n /**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [recover] for an alternative that rethrows exceptions.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n val value = value // workaround for inline classes BE bug\n return when (val exception = exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n }\n }\n /**\n * Peek onto value/exception and pipe\n *\n Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n exceptionOrNull()?.let { action(it) }\n return this\n }\n }\n /**\n * Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n *\n @InlineOnly\n @SinceKotlin("1.3")\n public inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n }\n if (isSuccess) action(value as T)\n return this\n }\n }\n /**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n @npackage kotlin.coroutines\n @nimport kotlin.coroutines.intrinsics.*\n @nimport kotlin.internal.InlineOnly\n /**\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\n *\n @SinceKotlin("1.3")\n public interface Continuation<in T> {\n /**\n * The context of the coroutine that corresponds to this continuation.\n *\n @n public val context: CoroutineContext\n /**\n * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n * return value of the last suspension point.\n *\n @n public fun resumeWith(result: Result<T>)\n }\n /**\n * Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n * `suspend` functions. These `suspend` extensions can only invoke other member or extension\n * `suspend` functions on this particular\n * receiver and are restricted from calling arbitrary suspension functions.\n *\n @SinceKotlin("1.3")\n @Target(AnnotationTarget.CLASS)\n @Retention(AnnotationRetention.BINARY)\n @npu

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blic annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline
fun <T> Continuation<T>.resume(value: T): Unit =\n    resumeWith(Result.success(value))\n\n/**\n * Resumes the
execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n * last suspension
point.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T>
Continuation<T>.resumeWithException(exception: Throwable): Unit =\n
resumeWith(Result.failure(exception))\n\n/**\n * Creates a [Continuation] instance with the given [context] and
implementation of [resumeWith] method.\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun <T>
Continuation(\n    context: CoroutineContext,\n    crossinline resumeWith: (Result<T>) -> Unit\n): Continuation<T>
=\n    object : Continuation<T> {\n        override val context: CoroutineContext\n            get() = context\n\n        override fun resumeWith(result: Result<T>) =\n            resumeWith(result)\n    }\n\n/**\n * Creates a coroutine
without a receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable
computation every time it is invoked.\n * To start executing the created coroutine, invoke `resume(Unit)` on the
returned [Continuation] instance.\n * The [completion] continuation is invoked when the coroutine completes with a
result or an exception.\n * Subsequent invocation of any resume function on the resulting continuation will produce
an [IllegalStateException].\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T>
(suspend () -> T).createCoroutine(\n    completion: Continuation<T>\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n *
Creates a coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException].\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n    receiver: R,\n    completion: Continuation<T>\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver and with result type [T].\n * This
function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n    completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n */\n@SinceKotlin("1.3")\n@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n    receiver: R,\n    completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains the current
continuation instance inside suspend functions and suspends\n * the currently running coroutine.\n * In this
function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
in\n * the same stack-frame where the suspension function is run or asynchronously later in the same thread or\n *
from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T =\n    suspendCoroutineUninterceptedOrReturn
{ c: Continuation<T> ->\n        val safe = SafeContinuation(c.intercepted())\n        block(safe)\n
safe.getOrThrow()\n    }\n\n/**\n * Returns the context of the current coroutine.\n */\n@SinceKotlin("1.3")\n@Suppress("WRONG_MODIFIER_TARGET")\n@InlineOnly\npublic suspend inline
val coroutineContext: CoroutineContext\n    get() {\n        throw NotImplementedError("Implemented as
intrinsic")\n    },"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n

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```

* \n \n package kotlin.coroutines.intrinsics \n \n import kotlin.coroutines.* \n import kotlin.internal.InlineOnly \n \n /** \n
Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first
suspension. \n * Returns the result of the coroutine or throws its exception if it does not suspend or
[COROUTINE_SUSPENDED] if it suspends. \n * In the latter case, the [completion] continuation is invoked when
the coroutine completes with a result or an exception. \n * \n * The coroutine is started directly in the invoker's thread
without going through the [ContinuationInterceptor] that might \n * be present in the completion's
[CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation \n * context is established. \n
* \n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
execution of the suspended \n * coroutine using a reference to the suspending function. \n
*/ \n @SinceKotlin("1.3") \n @InlineOnly \n public actual inline fun <T> (suspend () ->
T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T> \n): Any? =
this.asDynamic()(completion, false) \n \n /** \n
Starts an unintercepted coroutine with receiver type [R] and result
type [T] and executes it until its first suspension. \n * Returns the result of the coroutine or throws its exception if it
does not suspend or [COROUTINE_SUSPENDED] if it suspends. \n * In the latter case, the [completion]
continuation is invoked when the coroutine completes with a result or an exception. \n * \n * The coroutine is started
directly in the invoker's thread without going through the [ContinuationInterceptor] that might \n * be present in the
completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation \n * context is
established. \n * \n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn]
to resume the execution of the suspended \n * coroutine using a reference to the suspending function. \n
*/ \n @SinceKotlin("1.3") \n @InlineOnly \n public actual inline fun <R, T> (suspend R.() ->
T).startCoroutineUninterceptedOrReturn(\n receiver: R, \n completion: Continuation<T> \n): Any? =
this.asDynamic()(receiver, completion, false) \n \n \n /** \n
Creates unintercepted coroutine without receiver and with
result type [T]. \n * This function creates a new, fresh instance of suspendable computation every time it is
invoked. \n * \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 * \n *
This function returns unintercepted continuation. \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] of this function may get invoked in an arbitrary context. \n * \n *
[Continuation.intercepted] can be used to acquire the intercepted continuation. \n * Invocation of `resume(Unit)` on
intercepted continuation guarantees that execution of \n * both the coroutine and [completion] happens in the
invocation context established by \n * [ContinuationInterceptor]. \n * \n * Repeated invocation of any resume function
on the resulting continuation corrupts the \n * state machine of the coroutine and may result in arbitrary behaviour or
exception. \n */ \n @SinceKotlin("1.3") \n public actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n
completion: Continuation<T> \n): Continuation<Unit> = \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, true) \n } else { \n
createCoroutineFromSuspendFunction(completion) { \n this.asDynamic()(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 * \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 * \n * This function returns unintercepted continuation. \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] of this function
may get invoked in an arbitrary context. \n * \n * [Continuation.intercepted] can be used to acquire the intercepted
continuation. \n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of \n * both the

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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\n * coroutine and may result in arbitrary behaviour or exception.\n *\n * @SinceKotlin("1.3")\n * public actual fun <R, T>\n * (suspend R.() -> T).createCoroutineUnintercepted(\n * receiver: R,\n * completion: Continuation<T>)\n * Continuation<Unit> =\n * // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n * if\n * (this.asDynamic().length == 3) {\n * // When `suspended` is true the continuation is created, but not executed\n * this.asDynamic()(receiver, completion, true)\n * } else {\n * createCoroutineFromSuspendFunction(completion)\n * this.asDynamic()(receiver, completion)\n * }\n * }\n */\n * Intercepts this continuation with\n * [ContinuationInterceptor].\n *\n * 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 *\n * If this function is invoked on\n * other [Continuation] instances it returns `this` continuation unchanged.\n *\n * @SinceKotlin("1.3")\n * public actual\n * fun <T> Continuation<T>.intercepted(): Continuation<T> =\n * (this as? CoroutineImpl)?.intercepted() ?:  

this\n * private inline fun <T> createCoroutineFromSuspendFunction(\n * completion: Continuation<T>,\n * crossinline block: () -> Any?)\n * Continuation<Unit> {\n * @Suppress("UNCHECKED_CAST")\n * return object  

: CoroutineImpl(completion as Continuation<Any?>) {\n * override fun doResume(): Any? {\n * exception?.let { throw it }\n * return block()\n * }\n * }\n */\n * Copyright 2010-2018 JetBrains s.r.o.  

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that can be found in the license/LICENSE.txt file.\n *\n * @package kotlin.js\n * @library\n * @JsName("imulEmulated")\n * internal\n * fun imul(x: Int, y: Int): Int = definedExternally\n * internal inline fun isArrayish(o: dynamic) =  

js("Kotlin").isArrayish(o),\n */\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the  

Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n *\n * @file:Suppress("UNUSED_PARAMETER")\n * @package kotlin.js\n * @kotlin.internal.InlineOnly\n * internal  

inline fun jsDeleteProperty(obj: Any, property: Any) {\n * js("delete  

obj[property]")\n * }\n * @kotlin.internal.InlineOnly\n * internal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n * js("lhs | rhs").unsafeCast<Int>(),\n */\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language  

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the  

license/LICENSE.txt file.\n *\n * @package kotlin.math\n * Returns this value with the sign bit same as of the  

[sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n *\n * @SinceKotlin("1.2")\n * public actual  

fun Double.withSign(sign: Double): Double {\n * val thisSignBit =  

js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n * val newSignBit =  

js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n * return if (thisSignBit == newSignBit) this else -  

this\n * }\n */\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of  

this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n * @package kotlin\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point `double format` bit layout.\n *\n * @SinceKotlin("1.2")\n * @library("doubleToBits")\n * public actual fun Double.toBits(): Long =  

definedExternally\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point `double format` bit layout,\n * preserving `NaN` values exact layout.\n *\n * @SinceKotlin("1.2")\n * @library("doubleToRawBits")\n * public actual fun Double.toRawBits(): Long =  

definedExternally\n * Returns the [Double] value corresponding to a given bit representation.\n *\n * @SinceKotlin("1.2")\n * @kotlin.internal.InlineOnly\n * public actual inline fun Double.Companion.fromBits(bits:  

Long): Double = js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()\n *\n * Returns a bit representation  

of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point `single format` bit  

layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than `single format` bit layout can represent,\n * so  

some [Float] values may overflow, underflow or lose their accuracy after conversion to bits and back.\n

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*\/n@SinceKotlin("1.2")\/n@library("floatToBits")\/npublic actual fun Float.toBits(): Int =
definedExternally\/n\/n**\/n * Returns a bit representation of the specified floating-point value as [Int]\/n * according
to the IEEE 754 floating-point "single format" bit layout,\/n * preserving `NaN` values exact layout.\/n *\/n * Note
that in Kotlin/JS [Float] range is wider than "single format" bit layout can represent,\/n * so some [Float] values
may overflow, underflow or loose their accuracy after conversion to bits and back.\/n
*\/n@SinceKotlin("1.2")\/n@library("floatToRawBits")\/npublic actual fun Float.toRawBits(): Int =
definedExternally\/n\/n**\/n * Returns the [Float] value corresponding to a given bit representation.\/n
*\/n@SinceKotlin("1.2")\/n@kotlin.internal.InlineOnly\/npublic actual inline fun Float.Companion.fromBits(bits:
Int): Float = js("Kotlin").floatFromBits(bits).unsafeCast<Float>()\/n\/ninternal inline fun Long(low: Int, high: Int)
= js("Kotlin").Long.fromBits(low, high).unsafeCast<Long>()\/ninternal inline val Long.low: Int get() =
this.asDynamic().getLowBits().unsafeCast<Int>()\/ninternal inline val Long.high: Int get() =
this.asDynamic().getHighBits().unsafeCast<Int>()"/**\/n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\/n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\/n *\/n\/npackage kotlin.text\/n\/n**\/n * Returns a string representation of this
[Long] value in the specified [radix].\/n *\/n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\/n *\/n@SinceKotlin("1.2")\/npublic actual fun Long.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))"/**\/n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\/n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\/n *\/n\/npackage kotlin.collections\/n\/n\/n// NOTE: THIS FILE IS AUTO-GENERATED
by the GenerateStandardLib.kt\/n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\/n\/nimport
kotlin.js.*\/nimport kotlin.ranges.contains\/nimport kotlin.ranges.reversed\/n\/n**\/n * Reverses elements in the list in-
place.\/n *\/npublic actual fun <T> MutableList<T>.reverse(): Unit {\/n    val midPoint = (size / 2) - 1\/n    if
(midPoint < 0) return\/n    var reverseIndex = lastIndex\/n    for (index in 0..midPoint) {\/n        val tmp = this[index]\/n
        this[index] = this[reverseIndex]\/n        this[reverseIndex] = tmp\/n        reverseIndex--\/n    }\/n}\/n"/**\/n *
Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\/n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\/n *\/n\/npackage
kotlin.text\/n\/n\/n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\/n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\/n\/nimport kotlin.js.*\/n\/n**\/n * Returns a
character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char
sequence.\/n *\/n * @sample samples.collections.Collections.Elements.elementAt\/n *\/npublic actual fun
CharSequence.elementAt(index: Int): Char {\/n    return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length")}\/n}\/n}\/n"/**\/n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\/n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\/n *\/n\/npackage kotlin.collections\/n\/n\/n// NOTE: THIS
FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\/n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\/n\/nimport kotlin.js.*\/nimport
kotlin.ranges.contains\/nimport kotlin.ranges.reversed\/n\/n**\/n * Returns an element at the given [index] or throws
an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\/n *\/n * @sample
samples.collections.Collections.Elements.elementAt\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/npublic actual fun UIntArray.elementAt(index: Int):
UInt {\/n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")}\/n
}\/n}\/n**\/n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\/n *\/n * @sample samples.collections.Collections.Elements.elementAt\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/npublic actual fun ULongArray.elementAt(index: Int):
ULong {\/n    return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: $index, size: $size")}\/n
}\/n}\/n**\/n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is
out of bounds of this array.\/n *\/n * @sample samples.collections.Collections.Elements.elementAt\/n
*\/n@SinceKotlin("1.3")\/n@ExperimentalUnsignedTypes\/npublic actual fun UByteArray.elementAt(index: Int):

```



```
String): JQuery = asDynamic().dialog(mode)\n\n@Deprecated(\\"Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(mode:
String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)\n\n@Deprecated(\\"Use
declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun
JQuery.button(): JQuery = asDynamic().button()\n\n@Deprecated(\\"Use declarations from
'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.accordion():
JQuery = asDynamic().accordion()\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.draggable(params: Json): JQuery =
asDynamic().draggable(params)\n\n@Deprecated(\\"Use declarations from 'https://bintray.com/kotlin/js-
externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.selectable(): JQuery =
asDynamic().selectable()\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)\n@Deprecated(\\"Use `external` modifier
instead\", level = DeprecationLevel.ERROR)\npublic annotation class native(public val name: String =
\"\")\n\n@Target(FUNCTION)\n@Deprecated(\\"Use inline extension function with body using dynamic\")\npublic
annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated(\\"Use inline extension function with body
using dynamic\")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated(\\"Use inline
extension function with body using dynamic\")\npublic annotation class nativeInvoke\n\n@Target(CLASS,
FUNCTION, PROPERTY)\n\ninternal annotation class library(public val name: String =
\"\")\n\n@Target(CLASS)\n\ninternal annotation class marker\n\n/**\n * Gives a declaration (a function, a property or
a class) specific name in JavaScript.\n * This may be useful in the following cases:\n * * There are two
functions for which the compiler gives same name in JavaScript, you can\n * mark one with `@JsName(...)` to
prevent the compiler from reporting error.\n * * You are writing a JavaScript library in Kotlin. The compiler
produces mangled names\n * for functions with parameters, which is unnatural for usual JavaScript developer.\n *
You can put `@JsName(...)` on functions you want to be available from JavaScript.\n * * For some reason you
want to rename declaration, e.g. there's common term in JavaScript\n * for a concept provided by the declaration,
which is uncommon in Kotlin.\n * Example:\n * ``` kotlin\n * class Person(val name: String) {\n * fun
hello() {\n * println(\"Hello $name!\")\n * }\n * @JsName(\"helloWithGreeting\")\n * fun
hello(greeting: String) {\n * println(\"$greeting $name!\")\n * }\n * }\n * ```\n * @property name the
name which compiler uses both for declaration itself and for all references to the declaration.\n * It's required
to denote a valid JavaScript identifier.\n */\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS,
FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n\npublic actual
annotation class JsName(actual val name: String)\n\n/**\n * Denotes an `external` declaration that must be imported
from native JavaScript library.\n * The compiler produces the code relevant for the target module system, for
example, in case of CommonJS,\n * it will import the declaration via the `require(...)` function.\n * The
annotation can be used on top-level external declarations (classes, properties, functions) and files.\n * 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\n * that contain all the
declarations from the file.\n * Example:\n * ``` kotlin\n * @JsModule(\"jquery\")\n * external abstract class
JQuery() {\n * // some declarations here\n * }\n * @JsModule(\"jquery\")\n * external fun JQuery(element:
Element): JQuery\n * ```\n * @property import name of a module to import declaration from.\n * It is not
interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\n */\n\n@see
JsNonModule\n\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION,
FILE)\n\npublic annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be
used without module system.\n * By default, an `external` declaration is available regardless your target module
system.\n * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module
```

system.
 * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available
 * as an npm package.
 * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.
 * For example:

```
kotlin
@JsModule("jquery")
@JsNonModule
@JsName("$")
external abstract class JQuery() {
    // some declarations here
}
@JsModule("jquery")
@JsNonModule
@JsName("$")
external fun JQuery(element: Element): JQuery
@see JsModule
```

`@Retention(AnnotationRetention.BINARY)`
`@Target(CLASS, PROPERTY, FUNCTION, FILE)`
 public annotation class JsNonModule
 * Adds prefix to `external` declarations in a source file.
 * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.
 * The compiler turns references to `external` declarations either to plain unprefix names (in case of `plain` modules) or to plain imports.
 * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.
 * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)` annotation.
 * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.
 * Example:

```
@file:JsQualifier("my.jsPackageName")
package some.kotlinPackage
external fun foo(x: Int)
external fun bar(): String
@property value the qualifier to add to the declarations in the generated code. It must be a sequence of valid JavaScript identifiers separated by the `. character. Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.
@see JsModule
```

`@Retention(AnnotationRetention.BINARY)`
`@Target(AnnotationTarget.FILE)`
 public annotation class JsQualifier(val value: String)
 * Marks experimental JS export annotations.
 * Note that behaviour of these annotations will likely be changed in the future.
 * Usages of such annotations will be reported as warnings unless an explicit opt-in with the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`, or with the `-Xopt-in=kotlin.js.ExperimentalJsExport` compiler option is given.

`@Suppress("DEPRECATION")`
`@Experimental(level = Experimental.Level.WARNING)`
`@RequiresOptIn(level = RequiresOptIn.Level.WARNING)`
`@SinceKotlin("1.3")`
 public annotation class ExperimentalJsExport
 * Exports top-level declaration.
 * Used in future IR-based backend.
 * Has no effect in current JS backend.

`@ExperimentalJsExport`
`@SinceKotlin("1.3")`
`@Retention(AnnotationRetention.BINARY)`
`@Target(CLASS, PROPERTY, FUNCTION, FILE)`
 public annotation class JsExport
 * 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.jvm` these are used in common generated code in `stdlib`
 * TODO: find how to deprecate these

`@Target(AnnotationTarget.FIELD)`
`@Retention(AnnotationRetention.SOURCE)`
 public actual annotation class Volatile
`@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)`
`@Retention(AnnotationRetention.SOURCE)`
 public actual annotation class Synchronized
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`package kotlin.collections`
 * Provides a skeletal implementation of the [MutableCollection] interface.
 * `@param E` the type of elements contained in the collection. The collection is invariant on its element type.
 * public actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {
 * actual abstract override fun add(element: E): Boolean
 * actual override fun remove(element: E): Boolean {
 * val iterator = iterator()
 * while (iterator.hasNext()) {
 * if (iterator.next() == element) {
 * iterator.remove()
 * return true
 * }
 * }
 * return false
 * }
 * actual override fun addAll(elements: Collection<E>): Boolean {
 * var modified = false
 * for (element in elements) {
 * if (add(element)) modified = true
 * }
 * return modified
 * }
 * actual override fun removeAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it in elements }
 * actual override fun retainAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { !in elements }
 * actual override fun clear(): Unit {


```

val iterator = this.iterator()\n    while (iterator.hasNext()) {\n        iterator.next()\n        iterator.remove()\n    }\n}\n\n@JsName("toJSON")\nopen fun toJSON(): Any = this.toArray()\n}\n\n"/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList] interface.\n * @param E the type of elements contained in the list. The list is invariant on its element type.\n */\npublic actual abstract class AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n    protected var modCount: Int = 0\n\n    abstract override fun add(index: Int, element: E): Unit\n    abstract override fun removeAt(index: Int): E\n    abstract override fun set(index: Int, element: E): E\n\n    /**\n     * Adds the specified element to the end of this list.\n     * @return `true` because the list is always modified as the result of this operation.\n     */\n    actual override fun add(element: E): Boolean {\n        add(size, element)\n        return true\n    }\n\n    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n        var _index = index\n        var changed = false\n        for (e in elements) {\n            add(_index++, e)\n            changed = true\n        }\n        return changed\n    }\n\n    actual override fun clear() {\n        removeRange(0, size)\n    }\n\n    actual override fun removeAll(elements: Collection<E>): Boolean = removeAll { it in elements }\n\n    actual override fun retainAll(elements: Collection<E>): Boolean = removeAll { it !in elements }\n\n\n    actual override fun iterator(): MutableIterator<E> = IteratorImpl()\n\n    actual override fun contains(element: E): Boolean = indexOf(element) >= 0\n\n    actual override fun indexOf(element: E): Int {\n        for (index in 0..lastIndex) {\n            if (get(index) == element) {\n                return index\n            }\n        }\n        return -1\n    }\n\n    actual override fun lastIndexOf(element: E): Int {\n        for (index in lastIndex downTo 0) {\n            if (get(index) == element) {\n                return index\n            }\n        }\n        return -1\n    }\n\n    actual override fun listIterator(): MutableListIterator<E> = listIterator(0)\n\n    actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n    actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n    /**\n     * Removes the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\n     */\n    protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n        val iterator = listIterator(fromIndex)\n        repeat(toIndex - fromIndex) {\n            iterator.next()\n            iterator.remove()\n        }\n    }\n\n    /**\n     * Compares this list with another list instance with the ordered structural equality.\n     * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is List<*>) return false\n        return AbstractList.orderedEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code value for this list.\n     */\n    override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n\n\n    private open inner class IteratorImpl : MutableIterator<E> {\n        /** the index of the item that will be returned on the next call to [next]`()` */\n        protected var index = 0\n        /** the index of the item that was returned on the previous call to [next]`()` * or [ListIterator.previous]`()` (for `ListIterator`), * -1 if no such item exists */\n        protected var last = -1\n\n        override fun hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if (!hasNext())\n                throw NoSuchElementException()\n            last = index++\n            return get(last)\n        }\n\n        override fun remove() {\n            check(last != -1) { "Call next() or previous() before removing element from the iterator." }\n            removeAt(last)\n            index = last\n            last = -1\n        }\n    }\n\n    /**\n     * Implementation of `MutableListIterator` for abstract lists.\n     */\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n        init {\n            AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n            this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious())\n                throw NoSuchElementException()\n            last = --index\n            return get(last)\n        }\n\n        override fun previousIndex(): Int = index - 1\n\n        override fun add(element: E) {\n            add(index, element)\n            index++\n            last = -1\n        }\n\n        override fun set(element: E) {\n            check(last != -1) { "Call next() or previous() before updating element value with the iterator." }\n            this@AbstractMutableList[last] = element\n        }\n    }\n\n    private class SubList<E>(private val list: AbstractMutableList<E>, private val

```



```

    if (this === other) return true\n
    if (other !is Collection<*>) return false\n
    return
AbstractList.orderedEquals(this, other)\n
    }\n\n
    override fun hashCode(): Int =
AbstractList.orderedHashCode(this)\n
    }\n
    }\n
    return _values!!\n
    }\n\n
    actual override
fun remove(key: K): V? {\n
    val iter = entries.iterator()\n
    while (iter.hasNext()) {\n
    val entry =
iter.next()\n
    val k = entry.key\n
    if (key == k) {\n
    val value = entry.value\n
iter.remove()\n
    return value\n
    }\n
    }\n
    return null\n
    }\n\n
    }\n\n
    }"/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n *
Provides a skeletal implementation of the [MutableSet] interface.\n * @param E the type of elements contained
in the set. The set is invariant on its element type.\n */\npublic actual abstract class AbstractMutableSet<E>
protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n
/**\n * Compares this
set with another set instance with the unordered structural equality.\n * @return `true`, if [other] instance is
a [Set] of the same size, all elements of which are contained in this set.\n */\n override fun equals(other: Any?):
Boolean {\n
if (other === this) return true\n
if (other !is Set<*>) return false\n
return
AbstractSet.setEquals(this, other)\n
}\n\n
/**\n * Returns the hash code value for this set.\n */\n override
fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n
}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a [MutableList]
implementation, which uses a resizable array as its backing storage.\n * This implementation doesn't provide a
way to manage capacity, as backing JS array is resizeable itself.\n * There is no speed advantage to pre-allocating
array sizes in JavaScript, so this implementation does not include any of the\n * capacity and \"growth increment\"
concepts.\n */\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) :
AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n\n
/**\n * Creates an empty [ArrayList].\n */\n
public actual constructor() : this(emptyArray()) {\n\n
/**\n * Creates an empty [ArrayList].\n *
@param initialCapacity initial capacity (ignored)\n */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n
public actual
constructor(initialCapacity: Int = 0) : this(emptyArray()) {\n\n
/**\n * Creates an [ArrayList] filled from the
[elements] collection.\n */\n
public actual constructor(elements: Collection<E>) :
this(elements.toTypedArray<Any?>()) {\n\n
/**\n * Does nothing in this ArrayList implementation.\n */\n
public
actual fun trimToSize() {\n\n
/**\n * Does nothing in this ArrayList implementation.\n */\n
public actual fun
ensureCapacity(minCapacity: Int) {\n\n
actual override val size: Int get() = array.size\n
@Suppress(\"UNCHECKED_CAST\")\n
actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n
actual override fun set(index: Int, element: E): E {\n
rangeCheck(index)\n
@Suppress(\"UNCHECKED_CAST\")\n
return array[index].apply { array[index] = element } as E\n
}\n\n
actual override fun add(element: E): Boolean {\n
array.asDynamic().push(element)\n
modCount++\n
return true\n
}\n\n
actual override fun add(index: Int, element: E): Unit {\n
array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n
modCount++\n
}\n\n
actual override
fun addAll(elements: Collection<E>): Boolean {\n
if (elements.isEmpty()) return false\n\n
array +=
elements.toTypedArray<Any?>()\n
modCount++\n
return true\n
}\n\n
actual override fun addAll(index:
Int, elements: Collection<E>): Boolean {\n
insertionRangeCheck(index)\n\n
if (index == size) return
addAll(elements)\n
if (elements.isEmpty()) return false\n
when (index) {\n
size -> return
addAll(elements)\n
0 -> array = elements.toTypedArray<Any?>() + array\n
else -> array =
array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index,
size))\n
}\n\n
modCount++\n
return true\n
}\n\n
actual override fun removeAt(index: Int): E {\n
rangeCheck(index)\n
modCount++\n
return if (index == lastIndex)\n
array.asDynamic().pop()\n
else\n
array.asDynamic().splice(index, 1)[0]\n
}\n\n
actual override fun remove(element: E): Boolean {\n
for (index in array.indices) {\n
if (array[index] == element) {\n
array.asDynamic().splice(index,
1)\n
modCount++\n
return true\n
}\n
}\n
return false\n
}\n\n
override fun

```



```

element.contentHashCode()\n\n        else                -> element.hashCode()\n    }\n\n    result = 31 * result +
elementHash\n    }\n    return result\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n    /**\n * Subclasses must override to return a value indicating\n * whether or not two keys or values are equal.\n */\n    abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n    /**\n * Subclasses must override to return the
hash code of a given key.\n */\n    abstract fun getHashCode(value: Any?): Int\n\n    object HashCode :
EqualityComparator {\n        override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n        override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n    }\n}", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT
AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface.\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values]
and [entries] collections.\n */\n\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>,
MutableMap<K, V> {\n\n    private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n        override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not
supported on entries")\n\n        override fun clear() {\n            this@HashMap.clear()\n        }\n\n        override
operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n        override operator
fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n        override fun
remove(element: MutableEntry<K, V>): Boolean {\n            if (contains(element)) {\n                this@HashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override
val size: Int get() = this@HashMap.size\n    }\n\n    /**\n * Internal implementation of the map: either string-
based or hashcode-based.\n */\n    private val internalMap: InternalMap<K, V>\n\n    private val equality:
EqualityComparator\n\n    internal constructor(internalMap: InternalMap<K, V>) : super() {\n        this.internalMap
= internalMap\n        this.equality = internalMap.equality\n    }\n\n    /**\n * Constructs an empty [HashMap]
instance.\n */\n    actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n    /**\n * Constructs an empty [HashMap] instance.\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n * @throws IllegalArgumentException if the initial
capacity or load factor are negative\n */\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : this() {\n        // This implementation of HashMap has no need of load factors or
capacities.\n        require(initialCapacity >= 0) { "Negative initial capacity: $initialCapacity" }\n        require(loadFactor >= 0) { "Non-positive load factor: $loadFactor" }\n    }\n\n    actual constructor(initialCapacity:
Int) : this(initialCapacity, 0.0f)\n\n    /**\n * Constructs an instance of [HashMap] filled with the contents of the
specified [original] map.\n */\n    actual constructor(original: Map<out K, V>) : this() {\n        this.putAll(original)\n    }\n\n    actual override fun clear() {\n        internalMap.clear()\n    }\n\n    structureChanged(this)\n\n    actual override fun containsKey(key: K): Boolean =
internalMap.containsKey()\n\n    actual override fun containsValue(value: V): Boolean = internalMap.any {
equality.equals(it.value, value) }\n\n    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? =
null\n\n    actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n        get() {\n            if
(_entries == null) {\n                _entries = createEntrySet()\n            }\n            return _entries!!\n        }\n\n    protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual
override operator fun get(key: K): V? = internalMap.get(key)\n\n    actual override fun put(key: K, value: V): V? =
internalMap.put(key, value)\n\n    actual override fun remove(key: K): V? = internalMap.remove(key)\n\n    actual
override val size: Int get() = internalMap.size\n}\n\n/**\n * Constructs the specialized implementation of
[HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\n\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n    return

```



```

(equality.equals(entry.key, key)) {\n          jsDeleteProperty(backingMap, hashCode)\n          size--\nreturn entry.value\n      } else {\n          return null\n      }\n    } else {\n        val chain:\n        Array<MutableEntry<K, V>> = chainOrEntry\n            for (index in chain.indices) {\n                val entry =\n                chain[index]\n                if (equality.equals(key, entry.key)) {\n                    if (chain.size == 1) {\n                        chain.asDynamic().length = 0\n                        // remove the whole array\n                        jsDeleteProperty(backingMap, hashCode)\n                    } else {\n                        // splice out the entry we're\n                        removing\n                        chain.asDynamic().splice(index, 1)\n                    }\n                    size--\n                }\n                structureChanged(host)\n                return entry.value\n            }\n        }\n        return null\n    }\n}\n\noverride fun clear() {\n    backingMap = createJsMap()\n    size = 0\n}\n\noverride fun contains(key: K):\nBoolean = getEntry(key) != null\n\noverride fun get(key: K): V? = getEntry(key)?.value\n\nprivate fun\ngetEntry(key: K): MutableEntry<K, V>? {\n    val chainOrEntry =\n    getChainOrEntryOrNull(equality.getHashCode(key))?: return null\n    if (chainOrEntry !is Array<*>) {\n        val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key, key)) {\n                return\n                entry\n            } else {\n                return null\n            }\n    } else {\n        val chain: Array<MutableEntry<K,\n        V>> = chainOrEntry\n            return chain.findEntryInChain(key)\n        }\n    }\n}\n\nprivate fun\nArray<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n    firstOrNull { entry ->\n        equality.equals(entry.key, key) }\n\noverride fun iterator(): MutableIterator<MutableEntry<K, V>> {\nreturn object : MutableIterator<MutableEntry<K, V>> {\n    var state = -1 // -1 not ready, 0 - ready, 1 -\n    done\n    val keys: Array<String> = js("Object").keys(backingMap)\n    var keyIndex = -1\n    var chainOrEntry: dynamic = null\n    var isChain = false\n    var itemIndex = -1\n    var lastEntry:\n    MutableEntry<K, V>? = null\n\n    private fun computeNext(): Int {\n        if (chainOrEntry != null &&\n        isChain) {\n            val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n            if (++itemIndex < chainSize)\n                return 0\n        }\n        if (++keyIndex < keys.size)\n        {\n            chainOrEntry = backingMap[keys[keyIndex]]\n            isChain = chainOrEntry is Array<*>\n            itemIndex = 0\n            return 0\n        } else {\n            chainOrEntry = null\n            return 1\n        }\n    }\n\n    override fun hasNext(): Boolean {\n        if (state == -1)\n        state = computeNext()\n        return state == 0\n    }\n\n    override fun next(): MutableEntry<K, V>\n    {\n        if (!hasNext()) throw NoSuchElementException()\n        val lastEntry = if (isChain) {\n            chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n        } else {\n            chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n        }\n        this.lastEntry = lastEntry\n        state = -1\n        return lastEntry\n    }\n\n    override fun remove() {\n        checkNotNull(lastEntry)\n        this@InternalHashMap.remove(lastEntry!!.key)\n        lastEntry =\n        null\n        // the chain being iterated just got modified by InternalHashMap.remove\n        itemIndex--\n    }\n}\n}\n}\n}\n\nprivate fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n    val\n    chainOrEntry = backingMap[hashCode]\n    return if (chainOrEntry === undefined) null else chainOrEntry\n}\n}\n}\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of\n * this source code is governed by the Apache 2.0 license that can be found in the\n * license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and\n * [InternalHashMap].\n */\ninternal interface InternalMap<K, V> :  
MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val size: Int\n    operator fun contains(key: K): Boolean\n    operator fun get(key: K): V?\n    fun put(key: K, value: V): V?\n    fun\n    remove(key: K): V?\n    fun clear(): Unit\n    fun createJsMap(): dynamic {\n        val result =\n        js("Object.create(null)")\n        // force to switch object representation to dictionary mode\n        result["foo"] =\n        1\n        jsDeleteProperty(result, "foo")\n        return result\n    }\n}\n}\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o.\n * and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n */\n\nBased on GWT InternalStringMap\n * Copyright\n * 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is string.\n */\n * Though this map is instantiated only with

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K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to
generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\ninternal
class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var
backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n    private set\n\n    /**\n     * A mod
count to track 'value' replacements in map to ensure that the 'value' that we have in the\n     * iterator entry is
guaranteed to be still correct.\n     * This is to optimize for the common scenario where the values are not modified
during\n     * iterations where the entries are never stale.\n     */\n    private var valueMod: Int = 0\n    override
operator fun contains(key: K): Boolean {\n        if (key !is String) return false\n        return backingMap[key] !==
undefined\n    }\n\n    override operator fun get(key: K): V? {\n        if (key !is String) return null\n        val value =
backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>() else null\n    }\n\n    override fun
put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue = backingMap[key]\n        backingMap[key] = value\n\n        if (oldValue === undefined) {\n            size++\n\n            structureChanged(host)\n            return null\n        } else {\n            valueMod++\n            return
oldValue.unsafeCast<V>()\n        }\n    }\n\n    override fun remove(key: K): V? {\n        if (key !is String) return
null\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap,
key)\n            size--\n\n            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n            valueMod++\n            return null\n        }\n    }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n        return object :
MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> =
js("Object").keys(backingMap)\n            private val iterator = keys.iterator()\n            private var lastKey: String? =
null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n            override fun next():
MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n\n                @Suppress("UNCHECKED_CAST")\n                return newMapEntry(key as K)\n            }\n\n            override
fun remove() {\n                @Suppress("UNCHECKED_CAST")\n                this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n            }\n        }\n\n        private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n            override val key: K get() =
key\n            override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n            override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n            override fun
hashCode(): Int = AbstractMap.entryHashCode(this)\n            override fun toString(): String =
AbstractMap.entryToString(this)\n            override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this,
other)\n        }\n    }\n\n    /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    /**\n     * Based on GWT LinkedHashMap\n     */\n\n    /**\n     * Copyright 2008 Google Inc.\n     */\n\n    /**\n     * Hash table based
implementation of the [MutableMap] interface, which additionally preserves the insertion order\n     * of entries during
the iteration.\n     * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n     */\n\n    /**\n     * The entry we use includes next/prev pointers for a doubly-linked circular\n     * list with a head node. This reduces the
special cases we have to deal with\n     * in the list operations.\n     * Note that we duplicate the key from the
underlying hash map so we can find\n     * the eldest entry. The alternative would have been to modify HashMap so
more\n     * of the code was directly usable here, but this would have added some\n     * overhead to HashMap, or to
reimplement most of the HashMap code here with\n     * small modifications. Paying a small storage cost only if
you use\n     * LinkedHashMap and minimizing code size seemed like a better tradeoff\n     */\n\n    /**\n     */\n    private class
ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var
next: ChainEntry<K, V>? = null\n        internal var prev: ChainEntry<K, V>? = null\n    }\n\n    private inner class
EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n        private inner class EntryIterator :
MutableIterator<MutableEntry<K, V>> {\n            // The last entry that was returned from this iterator.\n            private var last: ChainEntry<K, V>? = null\n            // The next entry to return from this iterator.\n            private

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var next: ChainEntry<K, V>? = null\n\n    init {\n        next = head\n    }\n\n    recordLastKnownStructure(map, this)\n\n    override fun hasNext(): Boolean {\n        return\n        next != null\n    }\n\n    override fun next(): MutableEntry<K, V> {\n\n    checkStructuralChange(map, this)\n        if (!hasNext()) throw NoSuchElementException()\n        val\n        current = next!!\n        last = current\n        next = current.next.takeIf { it != head }\n        return\n        current\n    }\n\n    override fun remove() {\n        check(last != null)\n\n    checkStructuralChange(map, this)\n        last!!.remove()\n        map.remove(last!!.key)\n\n    recordLastKnownStructure(map, this)\n        last = null\n    }\n\n    override fun add(element:\n    MutableEntry<K, V>): Boolean = throw UnsupportedOperationException("Add is not supported on entries")\n\n    override fun clear() {\n        this@LinkedHashMap.clear()\n    }\n\n    override operator fun\n    contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n    override operator fun iterator():\n    MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n    override fun remove(element: MutableEntry<K,\n    V>): Boolean {\n        if (contains(element)) {\n            this@LinkedHashMap.remove(element.key)\n        }\n        return true\n    }\n\n    override val size: Int get() = this@LinkedHashMap.size\n\n    }\n\n    /*\n     * The head of the insert order chain, which is a doubly-linked circular\n     * list.\n     *\n     * The most\n     * recently inserted node is at the end of the chain, ie.\n     * chain.prev.\n     */\n    private var head: ChainEntry<K, V>?\n    = null\n\n    /**\n     * Add this node to the end of the chain.\n     */\n    private fun ChainEntry<K, V>.addToEnd()\n    {\n        // This entry is not in the list.\n        check(next == null && prev == null)\n        val _head = head\n        if\n        (_head == null) {\n            head = this\n            next = this\n            prev = this\n        } else {\n            // Chain is\n            valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n            next =\n            _head\n            // Update my new siblings: current head and old tail\n            _head.prev = this\n            _tail.next =\n            this\n        }\n    }\n\n    /**\n     * Remove this node from the chain it is a part of.\n     */\n    private fun\n    ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single element, remove head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next = null\n        prev = null\n    }\n\n    /*\n     * The hashmap that keeps track of our entries and the chain. Note that we\n     * duplicate the key here to eliminate changes to HashMap and minimize the\n     * code here, at the expense of\n     * additional space.\n     */\n    private val map: HashMap<K, ChainEntry<K, V>>\n\n    /**\n     * Constructs an empty\n     * [LinkedHashMap] instance.\n     */\n    actual constructor(): super() {\n        map = HashMap<K, ChainEntry<K,\n        V>>()\n    }\n\n    internal constructor(backingMap: HashMap<K, Any>) : super() {\n\n    @Suppress("UNCHECKED_CAST") // expected to work due to erasure\n        map = backingMap as\n        HashMap<K, ChainEntry<K, V>>\n    }\n\n    /**\n     * Constructs an empty [LinkedHashMap] instance.\n     *\n     * @param initialCapacity the initial capacity (ignored)\n     * @param loadFactor the load factor (ignored)\n     *\n     * @throws IllegalArgumentException if the initial capacity or load factor are negative\n     */\n    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n    actual constructor(initialCapacity:\n    Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n        map = HashMap<K, ChainEntry<K,\n        V>>()\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n     * Constructs an\n     * instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n     */\n    actual\n    constructor(original: Map<out K, V>) {\n        map = HashMap<K, ChainEntry<K, V>>()\n        this.putAll(original)\n    }\n\n    actual override fun clear() {\n        map.clear()\n        head = null\n    }\n\n    actual override fun clone(): Any {\n        return LinkedHashMap(this)\n    }\n\n    actual override fun containsKey(key:\n    K): Boolean = map.containsKey(key)\n\n    actual override fun containsValue(value: V): Boolean {\n        var node:\n        ChainEntry<K, V> = head ?: return false\n        do {\n            if (node.value == value) {\n                return true\n            }\n            node = node.next!!\n        } while (node != head)\n        return false\n    }\n\n    override fun\n    createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun\n    get(key: K): V? = map.get(key)?.value\n\n    actual override fun put(key: K, value: V): V? {\n        val old =\n        map.get(key)\n        if (old == null) {\n            val newEntry = ChainEntry(key, value)\n            map.put(key,\n            newEntry)\n            newEntry.addToEnd()\n            return null\n        } else {\n            return old.setValue(value)\n        }\n    }\n
```

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    }
}

actual override fun remove(key: K): V? {
    val entry = map.remove(key)
    if (entry != null)
        entry.remove()
    return entry.value
}

return null
}

actual override val size:
Int get() = map.size
}

/**
 * Constructs the specialized implementation of [LinkedHashMap] with [String]
 * keys, which stores the keys as properties of JS object without hashing them.
 */
public fun <V>
linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {
    return
    LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }
}

"/

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Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */

 * Based on GWT LinkedHashMap
 * Copyright 2008 Google Inc.
 */

package kotlin.collections

/**
 * 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 LinkedHashMap<E> : HashSet<E>, MutableSet<E>
{
    internal constructor(map: LinkedHashMap<E, Any>) : super(map)
    /**
     * Constructs a new empty
     * [LinkedHashSet].
     */
    actual constructor() : super(LinkedHashMap<E, Any>())
    /**
     * Constructs a
     * new [LinkedHashSet] filled with the elements of the specified collection.
     */
    actual constructor(elements:
    Collection<E>) : super(LinkedHashMap<E, Any>()) {
        addAll(elements)
    }
    /**
     * Constructs a
     * new empty [LinkedHashSet].
     */
    * @param initialCapacity the initial capacity (ignored)
    * @param
    loadFactor the load factor (ignored)
    * @throws IllegalArgumentException if the initial capacity or
    load factor are negative
    */
    @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
    actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity,
    loadFactor))
    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)
    // public override fun
    clone(): Any {
        return LinkedHashMap(this)
    }

    /**
     * Creates a new instance of the specialized
     * implementation of [LinkedHashSet] with the specified [String] elements,
     * which elements the keys as properties
     * of JS object without hashing them.
     */
    public fun linkedStringSetOf(vararg elements: String):
    LinkedHashMap<String> {
        return LinkedHashMap(linkedStringMapOf<Any>()).apply { addAll(elements)
        }
    }

"/

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 * this source code is governed by the Apache 2.0 license that can be found in the
 * license/LICENSE.txt file.
 */

 * @package kotlin.nimpor kotlin.contracts.
 */

@Deprecated("Do not use Synchronized annotation in pure
Kotlin/JS code", level = DeprecationLevel.ERROR)
public typealias Synchronized =
kotlin.jvm.Synchronized

@Deprecated("Do not use Volatile annotation in pure Kotlin/JS code", level =
DeprecationLevel.ERROR)
public typealias Volatile = kotlin.jvm.Volatile

@kotlin.internal.InlineOnly
public
actual inline fun <R> synchronized(lock: Any, block: () -> R): R {
    contract {
        callsInPlace(block,
        InvocationKind.EXACTLY_ONCE)
    }
    return block()
}

"/

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 * can be found in the license/LICENSE.txt file.
 */

 * @package kotlin.io
 */

internal abstract class BaseOutput {
    open fun println() {
        print("\n")
    }

    open fun println(message: Any?) {
        print(message)
        println()
    }

    abstract fun print(message: Any?)

    open fun flush() {}
}

/**
 * JsName used to make the
 * declaration available outside of module to test it
 */
@JsName("NodeJsOutput")
internal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {
    override fun print(message: Any?) {
        // TODO: Using local
        variable because of bug in block decomposition lowering in IR backend
        val messageString =
        String(message)
        outputStream.write(messageString)
    }

    /**
     * JsName used to make the declaration
     * available outside of module to test it
     */
    @JsName("OutputToConsoleLog")
    internal class OutputToConsoleLog
: BaseOutput() {
        override fun print(message: Any?) {
            console.log(message)
        }

        override fun
        println(message: Any?) {
            console.log(message)
        }

        override fun println() {
            console.log("")
        }

    }

    /**
     * JsName used to make the declaration
     * available outside of module to test it and use at try.kotl.in
     */
    @JsName("BufferedOutput")
    internal open class BufferedOutput : BaseOutput() {
        var buffer = ""

        override fun print(message: Any?) {
            buffer += String(message)
        }

        override fun flush() {
            buffer
            = ""
        }

    }

    /**
     * JsName used to make the declaration
     * available outside of module to test it
     */
    @JsName("BufferedOutputToConsoleLog")
    internal class BufferedOutputToConsoleLog : BufferedOutput()

```

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{\n  override fun print(message: Any?) {\n      var s = String(message)\n      val i = s.nativeLastIndexOf("\n", 0)\n      if (i >= 0) {\n          buffer += s.substring(0, i)\n          flush()\n          s = s.substring(i + 1)\n      }\n      buffer += s\n  }\n  override fun flush() {\n      console.log(buffer)\n      buffer = ""\n  }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*\n@JsName("output")\ninternal var output = run {\n  val isNode: Boolean = js("typeof process !== 'undefined' && process.versions && !process.versions.node")\n  if (isNode) NodeJsOutput(js("process.stdout")) else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String = js("String")(value)\n\n/** Prints the line separator to the standard output stream.
*\npublic actual fun println() {\n  output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream.
*\npublic actual fun println(message: Any?) {\n  output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream.
*\npublic actual fun print(message: Any?) {\n  output.print(message)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal actual class SafeContinuation<in T>\ninternal actual constructor(\n  private val delegate: Continuation<T>,\n  initialResult: Any?\n) : Continuation<T> {\n  @PublishedApi\n  internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n  public actual override val context: CoroutineContext\n  get() = delegate.context\n  private var result: Any? = initialResult\n  public actual override fun resumeWith(result: Result<T>) {\n      val cur = this.result\n      when {\n          cur === UNDECIDED -> {\n              this.result = result.value\n          }\n          cur === COROUTINE_SUSPENDED -> {\n              this.result = RESUMED\n              delegate.resumeWith(result)\n          }\n          else -> throw IllegalStateException("Already resumed")\n      }\n  }\n  @PublishedApi\n  internal actual fun getOrThrow(): Any? {\n      if (result === UNDECIDED) {\n          result = COROUTINE_SUSPENDED\n          return COROUTINE_SUSPENDED\n      }\n      val result = this.result\n      return when {\n          result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\n          result is Result.Failure -> throw result.exception\n          else -> result // either COROUTINE_SUSPENDED or data\n      }\n  }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.js.internal\nimport kotlin.coroutines.Continuation\nimport kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result -> result.getOrThrow() }\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n */\n\n@Suppress("NOT_DOCUMENTED")\npublic external class Date() {\n  public constructor(milliseconds: Number)\n  public constructor(dateString: String)\n  public constructor(year: Int, month: Int)\n  public constructor(year: Int, month: Int, day: Int)\n  public constructor(year: Int, month: Int, day: Int, hour: Int)\n  public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n  public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n  public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n  public fun getDate(): Int\n  public fun getDay(): Int\n  public fun getFullYear(): Int\n  public fun getHours(): Int\n  public fun getMilliseconds(): Int\n  public fun getMinutes(): Int\n  public fun getMonth(): Int\n  public fun getSeconds(): Int\n  public fun getTime(): Double\n  public fun getTimezoneOffset(): Int\n  public fun getUTCDate(): Int\n  public fun getUTCDay(): Int\n  public fun getUTCFullYear(): Int\n  public fun getUTCHours(): Int\n  public fun getUTCMilliseconds(): Int\n  public fun getUTCMinutes(): Int\n  public fun getUTCMonth(): Int\n  public

```

```

fun getUTCSeconds(): Int\n\n public fun toDateString(): String\n\n public fun toISOString(): String\n\n public
fun toJSON(): Json\n\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales:
String, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleTimeString(locales:
Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun
getTimeString(): String\n\n public fun toUTCString(): String\n\n public companion object {\n public fun
now(): Double\n\n public fun parse(dateString: String): Double\n\n public fun UTC(year: Int, month: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int): Double\n\n public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n
public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n
}\n\n public interface LocaleOptions {\n public var localeMatcher: String?\n\n public var timeZone:
String?\n\n public var hour12: Boolean?\n\n public var formatMatcher: String?\n\n public var weekday:
String?\n\n public var era: String?\n\n public var year: String?\n\n public var month: String?\n\n
public var day: String?\n\n public var hour: String?\n\n public var minute: String?\n\n public var
second: String?\n\n public var timeZoneName: String?\n }\n}\n\npublic inline fun dateLocaleOptions(init:
Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n val result = js(\n"new
Object()\n").unsafeCast<Date.LocaleOptions>()\n init(result)\n return result\n}", /*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Creates a new element with the specified [name].\n */\n * The element is initialized with
the speicified [init] function.\n */\n\npublic fun Document.createElement(name: String, init: Element.() -> Unit):
Element = createElement(name).apply(init)\n\n/**\n * Appends a newly created element with the specified [name]
to this element.\n */\n * The element is initialized with the speicified [init] function.\n */\n\npublic fun
Element.appendChild(name: String, init: Element.() -> Unit): Element =\n
ownerDocument!!.createElement(name, init).also { appendChild(it) }\n\n", /*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Returns true if the element has the given CSS class style in its 'class' attribute */\n\nfun
Element.hasClass(cssClass: String): Boolean =
className.matches("\\\\\\"(\\^|.*\\|s+)$cssClass(\\|s+.*)"\\.toRegex())\n\n/**\n * Adds CSS class to element. Has no
effect if all specified classes are already in class attribute of the element\n */\n * @return true if at least one class has
been added\n */\n\nfun Element.addClass(vararg cssClasses: String): Boolean {\n val missingClasses =
cssClasses.filterNot { hasClass(it) }\n if (missingClasses.isNotEmpty()) {\n val presentClasses =
className.trim()\n className = buildString {\n append(presentClasses)\n if
(!presentClasses.isEmpty()) {\n append("\\ ")\n }\n missingClasses.joinTo(this, "\\ ")
}\n return true\n }\n\n return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all
specified classes are missing in class attribute of the element\n */\n * @return true if at least one class has been
removed\n */\n\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n if (cssClasses.any { hasClass(it)
}) {\n val toBeRemoved = cssClasses.toSet()\n className =
className.trim().split("\\\\|s+"\\.toRegex()).filter { it !in toBeRemoved }.joinToString("\\ ")
\n return true\n }\n\n return false\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\\StringsKt")\n\npackage

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```

kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n
*\n@\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the
string into a regular expression [Regex] with the specified single [option].\n
*\n@\n@kotlin.internal.InlineOnly\npublic
inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a
regular expression [Regex] with the specified set of [options].\n
*\n@\n@kotlin.internal.InlineOnly\npublic inline fun
String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@\n@file:kotlin.jvm.JvmMultifileClass\n@\n@file:kotlin.jvm.JvmName("\nStringsKt\n")\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n
*\n * String builder can be used to efficiently perform
multiple string manipulation operations.\n
*\n * expect class StringBuilder : Appendable, CharSequence {\n
/**\n
Constructs an empty string builder. *\n
constructor()\n\n /**\n
Constructs an empty string builder with the
specified initial [capacity]. *\n
constructor(capacity: Int)\n\n /**\n
Constructs a string builder that contains the
same characters as the specified [content] char sequence. *\n
constructor(content: CharSequence)\n\n /**\n
Constructs a string builder that contains the same characters as the specified [content] string. *\n
\n
@SinceKotlin("\n1.3\n")\n//
@ExperimentalStdlibApi\n
constructor(content: String)\n\n override val length:
Int\n\n override operator fun get(index: Int): Char\n\n override fun subSequence(startIndex: Int, endIndex: Int):
CharSequence\n\n override fun append(value: Char): StringBuilder\n
override fun append(value:
CharSequence?): StringBuilder\n
override fun append(value: CharSequence?, startIndex: Int, endIndex: Int):
StringBuilder\n\n /**\n
*\n * Reverses the contents of this string builder and returns this instance.\n
*\n *
Surrogate pairs included in this string builder are treated as single characters.\n
*\n * Therefore, the order of the high-
low surrogates is never reversed.\n
*\n * Note that the reverse operation may produce new surrogate pairs that
were unpaired low-surrogates and high-surrogates before the operation.\n
*\n * For example, reversing
`\n"\n\uDC00\n\uD800\n"` produces `\n"\n\uD800\n\uDC00\n"` which is a valid surrogate pair.\n
*\n * fun reverse():
StringBuilder\n\n /**\n
*\n * Appends the string representation of the specified object [value] to this string builder
and returns this instance.\n
*\n * The overall effect is exactly as if the [value] were converted to a string by the
`value.toString()` method,\n
*\n * and then that string was appended to this string builder.\n
*\n * fun
append(value: Any?): StringBuilder\n\n /**\n
*\n * Appends the string representation of the specified boolean
[value] to this string builder and returns this instance.\n
*\n * The overall effect is exactly as if the [value] were
converted to a string by the `value.toString()` method,\n
*\n * and then that string was appended to this string
builder.\n
*\n * @SinceKotlin("\n1.3\n")\n//
@ExperimentalStdlibApi\n
fun append(value: Boolean):
StringBuilder\n\n /**\n
*\n * Appends characters in the specified character array [value] to this string builder and
returns this instance.\n
*\n * Characters are appended in order, starting at the index 0.\n
*\n
\n
@SinceKotlin("\n1.3\n")\n
@ExperimentalStdlibApi\n
fun append(value: CharArray):
StringBuilder\n\n /**\n
*\n * Appends the specified string [value] to this string builder and returns this instance.\n
*\n
\n
@SinceKotlin("\n1.3\n")\n//
@ExperimentalStdlibApi\n
fun append(value: String):
StringBuilder\n\n /**\n
*\n * Returns the current capacity of this string builder.\n
*\n * The capacity is the maximum length this string
builder can have before an allocation occurs.\n
*\n * @SinceKotlin("\n1.3\n")\n
@ExperimentalStdlibApi\n
fun
capacity(): Int\n\n /**\n
*\n * Ensures that the capacity of this string builder is at least equal to the specified
[minimumCapacity].\n
*\n * If the current capacity is less than the [minimumCapacity], a new backing storage
is allocated with greater capacity.\n
*\n * Otherwise, this method takes no action and simply returns.\n
*\n
\n
@SinceKotlin("\n1.3\n")\n
@ExperimentalStdlibApi\n
fun ensureCapacity(minimumCapacity: Int)\n\n /**\n
*\n * Returns the index within this string builder of the first occurrence of the specified [string].\n
*\n * Returns -1`
if the specified [string] does not occur in this string builder.\n
*\n * @SinceKotlin("\n1.3\n")\n
\n
@ExperimentalStdlibApi\n
fun indexOf(string: String): Int\n\n /**\n
*\n * Returns the index within this string
builder of the first occurrence of the specified [string],\n
*\n * starting at the specified [startIndex].\n
*\n *
Returns -1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
*\n
\n
*\n * @SinceKotlin("\n1.3\n")\n
@ExperimentalStdlibApi\n
fun indexOf(string: String, startIndex: Int): Int\n\n

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/**\n * Returns the index within this string builder of the last occurrence of the specified [string].\n * The last occurrence of empty string `\"\"` is considered to be at the index equal to `this.length`.\n *\n * Returns `-1` if the specified [string] does not occur in this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun lastIndexOf(string: String): Int\n\n /**\n * Returns the index within this string builder of the last occurrence of the specified [string],\n * starting from the specified [startIndex] toward the beginning.\n *\n * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun lastIndexOf(string: String, startIndex: Int): Int\n\n /**\n * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: Boolean): StringBuilder\n\n /**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: Char): StringBuilder\n\n /**\n * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] character array, starting at [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: CharArray): StringBuilder\n\n /**\n * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: CharSequence?): StringBuilder\n\n /**\n * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: Any?): StringBuilder\n\n /**\n * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun insert(index: Int, value: String): StringBuilder\n\n /**\n * Sets the length of this string builder to the specified [newLength].\n *\n * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n * Otherwise, null characters `\"u0000` are appended to this string builder until its length is less than the [newLength].\n *\n * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun setLength(newLength: Int)\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n fun substring(startIndex: Int): String\n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when

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`startIndex > endIndex`.n *^n @SinceKotlin("1.3")n @ExperimentalStdlibApi\n fun
substring(startIndex: Int, endIndex: Int): String\n\n /**n * Attempts to reduce storage used for this string
builder.n *n * If the backing storage of this string builder is larger than necessary to hold its current
contents,n * then it may be resized to become more space efficient.n * Calling this method may, but is not
required to, affect the value of the [capacity] property.n *^n @SinceKotlin("1.3")n
@ExperimentalStdlibApi\n fun trimToSize()\n\n/**n * Clears the content of this string builder making it
empty and returns this instance.n *n * @sample samples.text.Strings.clearStringBuilder\n
*^n@SinceKotlin("1.3")npublic expect fun StringBuilder.clear(): StringBuilder\n\n/**n * Sets the character at
the specified [index] to the specified [value].n *n * @throws IndexOutOfBoundsException if [index] is out of
bounds of this string builder.n *^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect operator fun
StringBuilder.set(index: Int, value: Char)\n\n/**n * Replaces characters in the specified range of this string builder
with characters in the specified string [value] and returns this instance.n *n * @param startIndex the beginning
(inclusive) of the range to replace.n * @param endIndex the end (exclusive) of the range to replace.n * @param
value the string to replace with.n *n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if
[startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect fun StringBuilder.setRange(startIndex: Int,
endIndex: Int, value: String): StringBuilder\n\n/**n * Removes the character at the specified [index] from this
string builder and returns this instance.n *n * If the `Char` at the specified [index] is part of a supplementary code
point, this method does not remove the entire supplementary character.n *n * @param index the index of `Char` to
remove.n *n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect fun StringBuilder.deleteAt(index: Int):
StringBuilder\n\n/**n * Removes characters in the specified range from this string builder and returns this
instance.n *n * @param startIndex the beginning (inclusive) of the range to remove.n * @param endIndex the end
(exclusive) of the range to remove.n *n * @throws IndexOutOfBoundsException or [IllegalArgumentException]
when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect fun StringBuilder.deleteRange(startIndex: Int,
endIndex: Int): StringBuilder\n\n/**n * Copies characters from this string builder into the [destination] character
array.n *n * @param destination the array to copy to.n * @param destinationOffset the position in the array to
copy to, 0 by default.n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.n *
@param endIndex the end (exclusive) of the range to copy, length of this string builder by default.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this
string builder indices or when `startIndex > endIndex`.n * @throws IndexOutOfBoundsException when the
subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],n * or when that index is
out of the [destination] array indices range.n *^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect
fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int
= this.length)\n\n/**n * Appends characters in a subarray of the specified character array [value] to this string
builder and returns this instance.n *n * Characters are appended in order, starting at specified [startIndex].n *n *
@param value the array from which characters are appended.n * @param startIndex the beginning (inclusive) of
the subarray to append.n * @param endIndex the end (exclusive) of the subarray to append.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`.n
*^n@SinceKotlin("1.3")n@ExperimentalStdlibApi\npublic expect fun StringBuilder.appendRange(value:
CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**n * Appends a subsequence of the specified
character sequence [value] to this string builder and returns this instance.n *n * @param value the character
sequence from which a subsequence is appended. If [value] is `null`,n * then characters are appended as if [value]
contained the four characters `\\null`.n * @param startIndex the beginning (inclusive) of the subsequence to
append.n * @param endIndex the end (exclusive) of the subsequence to append.n *n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the

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[value] character sequence indices or when `startIndex > endIndex`.
*/@SinceKotlin("1.3")@ExperimentalStdlibApi\npublic expect fun StringBuilder.appendRange(value:
CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n/**\n * Inserts characters in a subarray of the
specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in
this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param
startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the
subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`. \n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*/@SinceKotlin("1.3")@ExperimentalStdlibApi\npublic expect fun StringBuilder.insertRange(index: Int,
value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n/**\n * Inserts characters in a subsequence of the
specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n *
The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param
index the position in this string builder to insert at.\n * @param value the character sequence from which a
subsequence is inserted. If [value] is `null`,\n * then characters will be inserted as if [value] contained the four
characters `"\n\n\n\n"`. \n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param
endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence
indices or when `startIndex > endIndex`. \n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n */@SinceKotlin("1.3")@ExperimentalStdlibApi\npublic expect
fun StringBuilder.insertRange(index: Int, value: CharSequence?, startIndex: Int, endIndex: Int):
StringBuilder\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n@Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)"),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n * and then converting it to [String].\n */@kotlin.internal.InlineOnly\npublic inline fun
buildString(builderAction: String Builder.() -> Unit): String =\n
StringBuilder().apply(builderAction).toString()\n/**\n * Builds new string by populating newly created
[StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting it to
[String].\n */@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int,
builderAction: String Builder.() -> Unit): String =\n
StringBuilder(capacity).apply(builderAction).toString()\n/**\n * Appends all arguments to the given
StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): String Builder {\n    for (item in
value)\n        append(item)\n    return this\n}\n/**\n * Appends all arguments to the given StringBuilder.\n
*/\npublic fun StringBuilder.append(vararg value: Any?): String Builder {\n    for (item in value)\n        append(item)\n    return this\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n/**\n * Gets a value indicating
whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\npublic val Node.isText: Boolean\n    get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n/**\n * Gets a value
indicating whether this node is an [Element].\n */\npublic val Node.isElement: Boolean\n    get() = nodeType ==
Node.ELEMENT_NODE\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) ->
Unit): EventListener = EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler:
(Event) -> Unit) : EventListener {\n    public override fun handleEvent(event: Event) {\n        handler(event)\n    }\n    public override fun toString(): String = "EventListenerHandler($handler)\n\n", /*\n * Copyright 2010-

```



```

2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic
external interface ItemArrayLike<out T> {\n    val length: Int\n    fun item(index: Int): T?\n}\n\n/**\n * Returns the
view of this `ItemArrayLike<T>` collection as `List<T>`\n */\n\npublic fun <T> ItemArrayLike<T>.asList(): List<T>
= object : AbstractList<T>() {\n    override val size: Int get() = this@asList.length\n\n    override fun get(index: Int):
T = when (index) {\n        in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n        else -> throw
IndexOutOfBoundsException("index $index is not in range [0..$lastIndex]")\n    }\n}\n\n"/*\n * Copyright 2010-
2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport
org.w3c.dom.*\n\n/**\n * Removes all the children from this node. */\n\npublic fun Node.clear() {\n    while
(hasChildNodes()) {\n        removeChild(firstChild!)\n    }\n}\n\n/**\n * Creates text node and append it to the
element.\n */\n\n * @return this element\n */\n\nfun Element.appendText(text: String): Element {\n
appendChild(ownerDocument!!.createTextNode(text))\n    return this\n}\n\n"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n */\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the
specified type [T] without any actual type checking.\n */\n\n@kotlin.internal.DynamicExtension\n\n@JsName("unsafeCastDynamic")\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n\n@kotlin.internal.DynamicExtension\n\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n    val r: Any? = this\n\n    return when {\n        this["iterator"] != null -
->\n            this["iterator"]()\n        isArrayish(r) ->\n            r.unsafeCast<Array<*>>().iterator()\n        else ->\n
            (r as Iterable<*>).iterator()\n    }\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the
module\n\n@JsName("throwNPE")\n\ninternal fun throwNPE(message: String) {\n    throw
NullPointerException(message)\n}\n\n@JsName("throwCCE")\n\ninternal fun throwCCE() {\n    throw
ClassCastException("Illegal cast")\n}\n\n@JsName("throwISE")\n\ninternal fun throwISE(message: String) {\n
throw IllegalStateException(message)\n}\n\n@JsName("throwUPAE")\n\ninternal fun throwUPAE(propertyName:
String) {\n    throw UninitializedPropertyAccessException("lateinit property ${propertyName} has not been
initialized")\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use this
template:\n\n/**\n * public open class MyException : Exception {\n *     constructor() : super()\n *     constructor(message:
String?) : super(message)\n *     constructor(message: String?, cause: Throwable?) : super(message, cause)\n *
constructor(cause: Throwable?) : super(cause)\n */\n\n// TODO: remove workarounds for KT-22053 from
direct Throwable inheritors\n\n// TODO: remove primary constructors, make all secondary KT-
22055\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic actual open class Error actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n    actual constructor() :
this(null, null) {\n        Error::class.js.asDynamic().call(this, null, null)\n    }\n\n    actual constructor(message:
String?) : this(message, null) {\n        Error::class.js.asDynamic().call(this, message, null)\n    }\n\n    actual
constructor(cause: Throwable?) : this(undefiend, cause) {\n        Error::class.js.asDynamic().call(this, undefiend,
cause)\n    }\n}\n\n@Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\npublic actual open class Exception
actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n    actual

```



```

*@\n\n@file:kotlin.jvm.JvmName("\nGroupingKt")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n
* they group elements by their keys and then fold each group with some aggregating operation.\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -
[Array.groupingBy]\n * - [CharSequence.groupingBy]\n * For the list of group-and-fold operations available,
see the [extension functions](#extension-functions) for `Grouping`.\n *@\n@SinceKotlin("1.1")\n\npublic interface
Grouping<T, out K> {\n    /** Returns an [Iterator] over the elements of the source of this grouping. *\n    fun
sourceIterator(): Iterator<T>\n    /** Extracts the key of an [element]. *\n    fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,\n * passing the previously accumulated value, and the current element as arguments, and stores the
results in a new map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * \n *
@param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n * \n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.\n * @sample
samples.collections.Grouping.aggregateByRadix\n *@\n@SinceKotlin("1.1")\n\npublic inline fun <T, K, R>
Grouping<T, K>.aggregate(\n    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K,
R> {\n    return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the
[Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the
previously accumulated value and the current element as arguments,\n * and stores the results in the given
[destination] map.\n * The key for each element is provided by the [Grouping.keyOf] function.\n * \n *
@param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group
this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null` if it's
the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * -
`first`: indicates whether it's the first `element` encountered in the group.\n * \n * If the [destination] map already has
a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as
`first`.\n * \n * @return the [destination] map associating the key of each group with the result of aggregation of the
group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n
*@\n@SinceKotlin("1.1")\n\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n    destination: M,\n    operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M
{\n    for (e in this.sourceIterator()) {\n        val key = keyOf(e)\n        val accumulator = destination[key]\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n    }\n
return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,\n * passing the previously accumulated value and the current element as
arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by
[initialValueSelector] function.\n * \n * @param initialValueSelector a function that provides an initial value of
accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the
first element being encountered in that group.\n * \n * @param operation a function that is invoked on each element
with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the
current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n
*\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n *
*\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n
*@\n@SinceKotlin("1.1")\n\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n    initialValueSelector: (key: K,
element: T) -> R,\n    operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n
@Suppress("UNCHECKED_CAST")\n    aggregate { key, acc, e, first -> operation(key, if (first)

```

initialValueSelector(key, e) else acc as R, e) }
 * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is provided by [initialValueSelector] function.
 * @param initialValueSelector a function that provides an initial value of accumulator for each group.
 * It's invoked with parameters:
 * - `key`: the key of the group;
 * - `element`: the first element being encountered in that group.
 * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of the accumulator for that group and the [initialValueSelector] function is not called for that group.
 * @param operation a function that is invoked on each element with the following parameters:
 * - `key`: the key of the group this element belongs to;
 * - `accumulator`: the current value of the accumulator of the group;
 * - `element`: the element from the source being accumulated.
 * @return the [destination] map associating the key of each group with the result of accumulating the group elements.
 * @sample

```
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo
 *^@SinceKotlin("1.1")\npublic
inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n
initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }  

  * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the same [initialValue] for each group.  

  * @param operation a function that is invoked on each element with the following parameters:  

  * - `accumulator`: the current value of the accumulator of the group;  

  * - `element`: the element from the source being accumulated.  

  * @return a [Map] associating the key of each group with the result of accumulating the group elements.  

  * @sample
```

```
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue
 *^@SinceKotlin("1.1")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n):
Map<K, R> =\n @Suppress("UNCHECKED_CAST")\n aggregate { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }  

  * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given [destination] map. An initial value of accumulator is the same [initialValue] for each group.  

  * If the [destination] map already has a value corresponding to the key of some group, that value is used as an initial value of the accumulator for that group.  

  * @param operation a function that is invoked on each element with the following parameters:  

  * - `accumulator`: the current value of the accumulator of the group;  

  * - `element`: the element from the source being accumulated.  

  * @return the [destination] map associating the key of each group with the result of accumulating the group elements.  

  * @sample
```

```
samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo
 *^@SinceKotlin("1.1")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n
destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): M =\n
@Suppress("UNCHECKED_CAST")\n aggregateTo(destination) { _, acc, e, first -> operation(if (first)
initialValue else acc as R, e) }  

  * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group sequentially starting from the second element of the group, passing the previously accumulated value and the current element as arguments, and stores the results in a new map. An initial value of accumulator is the first element of the group.  

  * @param operation a function that is invoked on each subsequent element of the group with the following parameters:  

  * - `key`: the key of the group this element belongs to;  

  * - `accumulator`: the current value of the accumulator of the group;  

  * - `element`: the element from the source being accumulated.  

  * @return a [Map] associating the key of each group with the result of accumulating the group elements.  

  * @sample
```

```
samples.collections.Grouping.reduceByMaxVowels
 *^@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K,
accumulator: S, element: T) -> S\n): Map<K, S> =\n aggregate { key, acc, e, first ->
```

```

@Suppress("UNCHECKED_CAST")\n    if (first) e else operation(key, acc as S, e)\n    }\n\n/**\n * Groups
elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n
sequentially starting from the second element of the group,\n
* passing the previously accumulated value and the
current element as arguments,\n
* and stores the results in the given [destination] map.\n
* An initial value of
accumulator is the first element of the group.\n
*\n
* If the [destination] map already has a value corresponding to
the key of some group,\n
* that value is used as an initial value of the accumulator for that group and the first
element of that group is also\n
* subjected to the [operation].\n
*\n
* @param operation a function that is invoked on
each subsequent element of the group with the following parameters:\n
* - `accumulator`: the current value of the
accumulator of the group;\n
* - `element`: the element from the source being folded;\n
*\n
* @return the
[destination] map associating the key of each group with the result of accumulating the group elements.\n
*\n
@sample samples.collections.Grouping.reduceByMaxVowelsTo\n
*\n
@SinceKotlin("1.1")\npublic inline fun <S,
T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n    destination: M,\n    operation: (key: K,
accumulator: S, element: T) -> S):\n    M =\n    aggregateTo(destination) { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n    if (first) e else operation(key, acc as S, e)\n    }\n\n/**\n * Groups
elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n
*\n
* If the [destination] map already has a value corresponding to the key of some group,\n
* that value is used as an
initial value of the counter for that group.\n
*\n
* @return the [destination] map associating the key of each group
with the count of elements in the group.\n
*\n
* @sample samples.collections.Grouping.groupingByEachCount\n
*\n
@SinceKotlin("1.1")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachCountTo(destination: M): M =\n    foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n/**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group\n
* to the given [destination] map.\n
*\n
*\n
* If the [destination] map already has a value
corresponding to the key of some group,\n
* that value is used as an initial value of the sum for that group.\n
*\n
*\n
* @return the [destination] map associating the key of each group with the sum of elements in the group.\n
*\n
*\n
@SinceKotlin("1.1")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T,
K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n    foldTo(destination, 0) { acc, e -> acc +
valueSelector(e) }\n\n/**\n * TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M :
MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M
=\n    foldTo(destination, 0L) { acc, e -> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T,
K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n    fold(0L) { acc, e -> acc +
valueSelector(e) }\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T,
K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n    foldTo(destination, 0.0) { acc, e
-> acc + valueSelector(e) }\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) ->
Double): Map<K, Double> =\n    fold(0.0) { acc, e -> acc + valueSelector(e) }\n\n/**\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n
*\n
package kotlin.js\n\n/**\n * Exposes
the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math)
to Kotlin.\n
*\n
*\n
@Deprecated("Use top-level functions from kotlin.math package instead.", level =
DeprecationLevel.WARNING)\npublic external object Math {\n    @Deprecated("Use kotlin.math.PI instead.",
ReplaceWith("PI", "kotlin.math.PI"), level = DeprecationLevel.ERROR)\n    public val PI: Double\n
    @Deprecated("Use Random.nextDouble instead", ReplaceWith("kotlin.random.Random.nextDouble()",
"kotlin.random.Random"), level = DeprecationLevel.WARNING)\n    public fun random(): Double\n
    @Deprecated("Use kotlin.math.abs instead.", ReplaceWith("abs(value)", "kotlin.math.abs"), level =
DeprecationLevel.ERROR)\n    public fun abs(value: Double): Double\n
    @Deprecated("Use kotlin.math.acos instead.", ReplaceWith("acos(value)", "kotlin.math.acos"), level =
DeprecationLevel.ERROR)\n    public fun acos(value: Double): Double\n
    @Deprecated("Use kotlin.math.asin instead.", ReplaceWith("asin(value)",
"kotlin.math.asin"), level = DeprecationLevel.ERROR)\n    public fun asin(value: Double): Double\n
    @Deprecated("Use kotlin.math.atan instead.", ReplaceWith("atan(value)", "kotlin.math.atan"), level =

```

```

DeprecationLevel.ERROR)\n public fun atan(value: Double): Double\n @Deprecated(\`Use kotlin.math.atan2
instead.\`, ReplaceWith(\`atan2(y, x)\`, \`kotlin.math.atan2\`), level = DeprecationLevel.ERROR)\n public fun
atan2(y: Double, x: Double): Double\n @Deprecated(\`Use kotlin.math.cos instead.\`,
ReplaceWith(\`cos(value)\`, \`kotlin.math.cos\`), level = DeprecationLevel.ERROR)\n public fun cos(value:
Double): Double\n @Deprecated(\`Use kotlin.math.sin instead.\`, ReplaceWith(\`sin(value)\`, \`kotlin.math.sin\`),
level = DeprecationLevel.ERROR)\n public fun sin(value: Double): Double\n @Deprecated(\`Use
kotlin.math.exp instead.\`, ReplaceWith(\`exp(value)\`, \`kotlin.math.exp\`), level = DeprecationLevel.ERROR)\n
public fun exp(value: Double): Double\n @Deprecated(\`Use maxOf or kotlin.math.max instead\`, level =
DeprecationLevel.ERROR)\n public fun max(vararg values: Int): Int\n @Deprecated(\`Use maxOf or
kotlin.math.max instead\`, level = DeprecationLevel.ERROR)\n public fun max(vararg values: Float): Float\n
@Deprecated(\`Use maxOf or kotlin.math.max instead\`, level = DeprecationLevel.ERROR)\n public fun
max(vararg values: Double): Double\n @Deprecated(\`Use minOf or kotlin.math.min instead\`, level =
DeprecationLevel.ERROR)\n public fun min(vararg values: Int): Int\n @Deprecated(\`Use minOf or
kotlin.math.min instead\`, level = DeprecationLevel.ERROR)\n public fun min(vararg values: Float): Float\n
@Deprecated(\`Use minOf or kotlin.math.min instead\`, level = DeprecationLevel.ERROR)\n public fun
min(vararg values: Double): Double\n @Deprecated(\`Use kotlin.math.sqrt instead.\`,
ReplaceWith(\`sqrt(value)\`, \`kotlin.math.sqrt\`), level = DeprecationLevel.ERROR)\n public fun sqrt(value:
Double): Double\n @Deprecated(\`Use kotlin.math.tan instead.\`, ReplaceWith(\`tan(value)\`,
\`kotlin.math.tan\`), level = DeprecationLevel.ERROR)\n public fun tan(value: Double): Double\n
@Deprecated(\`Use kotlin.math.ln instead.\`, ReplaceWith(\`ln(value)\`, \`kotlin.math.ln\`), level =
DeprecationLevel.ERROR)\n public fun log(value: Double): Double\n @Deprecated(\`Use kotlin.math.pow
instead.\`, ReplaceWith(\`base.pow(exp)\`, \`kotlin.math.pow\`), level = DeprecationLevel.ERROR)\n public fun
pow(base: Double, exp: Double): Double\n @Deprecated(\`Use kotlin.math.round instead.\`,
ReplaceWith(\`round(value)\`, \`kotlin.math.round\`), level = DeprecationLevel.ERROR)\n public fun
round(value: Number): Int\n @Deprecated(\`Use kotlin.math.floor instead.\`, ReplaceWith(\`floor(value)\`,
\`kotlin.math.floor\`), level = DeprecationLevel.ERROR)\n public fun floor(value: Number): Int\n
@Deprecated(\`Use kotlin.math.ceil instead.\`, ReplaceWith(\`ceil(value)\`, \`kotlin.math.ceil\`), level =
DeprecationLevel.ERROR)\n public fun ceil(value: Number): Int\n\n @PublishedApi\n internal fun
trunc(value: Number): Double\n @PublishedApi\n internal fun sign(value: Number): Double\n\n
@PublishedApi\n internal fun sinh(value: Double): Double\n @PublishedApi\n internal fun cosh(value:
Double): Double\n @PublishedApi\n internal fun tanh(value: Double): Double\n @PublishedApi\n internal
fun asinh(value: Double): Double\n @PublishedApi\n internal fun acosh(value: Double): Double\n
@PublishedApi\n internal fun atanh(value: Double): Double\n\n @PublishedApi\n internal fun hypot(x:
Double, y: Double): Double\n\n @PublishedApi\n internal fun expm1(value: Double): Double\n\n
@PublishedApi\n internal fun log10(value: Double): Double\n @PublishedApi\n internal fun log2(value:
Double): Double\n @PublishedApi\n internal fun log1p(value: Double): Double\n\n @PublishedApi\n
internal fun clz32(value: Int): Int\n}\n\n/**\n * Returns the smaller of two values.\n
*\n*\n @Suppress(\`DEPRECATION\`)\n @Deprecated(\`Use minOf or kotlin.math.min instead\`,
ReplaceWith(\`minOf(a, b)\`), level = DeprecationLevel.ERROR)\n public fun Math.min(a: Long, b: Long): Long =
if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
*\n*\n @Suppress(\`DEPRECATION\`)\n @Deprecated(\`Use maxOf or kotlin.math.max instead\`,
ReplaceWith(\`maxOf(a, b)\`), level = DeprecationLevel.ERROR)\n public fun Math.max(a: Long, b: Long): Long =
if (a >= b) a else b\n\n\n/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An interface for indexing access to a collection of
key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n */\n\npublic external interface Json
{\n /**\n * Calls to the function will be translated to indexing operation (square brackets) on the receiver with
[propertyName] as the argument.\n * \n * E.g. for next code:\n * ``kotlin\n * fun test(j: Json, p: String) =

```

```

j["prop"] + j.get(p) * ``\n * \n * will be generated:\n * ``js\n * function test(j, p) {\n * return
j["prop"] + j[p];\n * }\n * ``\n * \n operator fun get(propertyName: String): Any?\n /**\n * Calls
of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index
operation) with [propertyName].\n * \n * E.g. for the following code:\n * ``kotlin\n * fun test(j: Json, p:
String, newValue: Any) {\n * j["prop"] = 1\n * j.set(p, newValue)\n * }\n * ``\n * \n * will be
generated:\n * ``js\n * function test(j, p, newValue) {\n * j["prop"] = 1;\n * j[p] = newValue;\n *
}\n * }\n * ``\n * \n operator fun set(propertyName: String, value: Any?): Unit\n /**\n * Returns a
simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n
*\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n val res: dynamic = js("{}")\n for ((name,
value) in pairs) {\n res[name] = value\n }\n return res\n}\n/**\n * Adds key-value pairs from [other] to
[this].\n * Returns the original receiver.\n*/\npublic fun Json.add(other: Json): Json {\n val keys: Array<String> =
js("Object").keys(other)\n for (key in keys) {\n if (other.asDynamic().hasOwnProperty(key)) {\n
this[key] = other[key];\n }\n }\n return this\n}\n/**\n * Exposes the JavaScript [JSON
object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n
*\n@Suppress("NOT_DOCUMENTED")\npublic external object JSON {\n public fun stringify(o: Any?):
String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?): String\n public fun
stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n public
fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n
public fun stringify(o: Any?, replacer: Array<String>): String\n public fun stringify(o: Any?, replacer:
Array<String>, space: Int): String\n public fun stringify(o: Any?, replacer: Array<String>, space: String):
String\n\n public fun <T> parse(text: String): T\n public fun <T> parse(text: String, reviver: ((key: String, value:
Any?) -> Any?): T)\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n@file:Suppress("DEPRECATION", "DEPRECATION_ERROR")\npackage
kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.Math as nativeMath\n\n// region
===== Double Math =====\n\n/** Computes the
sine of the angle [x] given in radians.\n * \n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double =
nativeMath.sin(x)\n\n/** Computes the cosine of the angle [x] given in radians.\n * \n * Special cases:\n * -
`cos(NaN|+Inf|-Inf)` is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun cos(x: Double):
Double = nativeMath.cos(x)\n\n/** Computes the tangent of the angle [x] given in radians.\n * \n * Special cases:\n
* - `tan(NaN|+Inf|-Inf)` is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun tan(x:
Double): Double = nativeMath.tan(x)\n\n/** Computes the arc sine of the value [x];\n * the returned value is an
angle in the range from `-PI/2` to `PI/2` radians.\n * \n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1`
or x is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double =
nativeMath.asin(x)\n\n/** Computes the arc cosine of the value [x];\n * the returned value is an angle in the
range from `0.0` to `PI` radians.\n * \n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double =
nativeMath.acos(x)\n\n/** Computes the arc tangent of the value [x];\n * the returned value is an angle in the
range from `-PI/2` to `PI/2` radians.\n * \n * Special cases:\n * - `atan(NaN)` is `NaN`\n
*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double =
nativeMath.atan(x)\n\n/** Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the
rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle
in the range from `-PI` to `PI` radians.\n * \n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is
`0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`\n * - `atan2(y,
+Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI`
for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for
finite `x`\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n

```

```

*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double =
nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value [x].\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sinh(x: Double): Double =
nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun tanh(x: Double): Double =
nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n * The returned value is `y` such that `sinh(y) == x`.\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n * The returned value is positive `y` such that `cosh(y) == x`.\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n * The returned value is `y` such that `tanh(y) == x`.\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun atanh(x: Double): Double =
nativeMath.atanh(x)\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun sqrt(x: Double): Double =
nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun exp(x: Double): Double =
nativeMath.exp(x)\n\n/**\n * Computes `exp(x) - 1`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n * @see [exp] function.\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\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(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual fun log(x: Double, base: Double): Double {\n    if (base <= 0.0 || base == 1.0) return Double.NaN\n    return nativeMath.log(x) / nativeMath.log(base)\n}\n\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(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun ln(x: Double): Double =
nativeMath.log(x)\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for special cases.\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log10(x: Double): Double =
nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun log2(x: Double): Double =
nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n * @see [ln] function\n * @see [expm1] function\n
*^@SinceKotlin("1.2")@InlineOnly\npublic actual inline fun ln1p(x: Double): Double =

```


`nativeMath.log1p(x)` Rounds the given value [x] to an integer towards positive infinity. @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer. Special cases: `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun ceil(x: Double): Double =`

`nativeMath.ceil(x).unsafeCast<Double>()` // TODO: Remove unsafe cast after removing public js.math

`nativeMath.floor(x)` Rounds the given value [x] to an integer towards negative infinity. @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer. Special cases: `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun floor(x: Double): Double =`

`nativeMath.floor(x).unsafeCast<Double>()`

`nativeMath.truncate(x)` Rounds the given value [x] to an integer towards zero. @return the value [x] having its fractional part truncated. Special cases: `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)`

`nativeMath.round(x)` Rounds the given value [x] towards the closest integer with ties rounded towards even integer. Special cases: `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.

`@SinceKotlin("1.2")` `public actual fun round(x: Double): Double {`

`if (x % 0.5 != 0.0) {`

`return nativeMath.round(x).unsafeCast<Double>()`

`}`

`val floor = floor(x)`

`return if (floor % 2 == 0) floor else ceil(x)`

`}`

`nativeMath.abs(x)` Returns the absolute value of the given value [x]. Special cases: `abs(NaN)` is `NaN`. @see `absoluteValue` extension property for `[Double]`.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun abs(x: Double): Double =`

`nativeMath.abs(x)`

`nativeMath.sign(x)` Returns the sign of the given value [x]: `-1.0` if the value is negative, `1.0` if the value is zero, `1.0` if the value is positive. Special case: `sign(NaN)` is `NaN`.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun sign(x: Double): Double =`

`nativeMath.sign(x)`

`nativeMath.min(a, b)` Returns the smaller of two values. If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun min(a: Double, b: Double): Double =`

`nativeMath.min(a, b)`

`nativeMath.max(a, b)` Returns the greater of two values. If either value is `NaN`, then the result is `NaN`.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun max(a: Double, b: Double): Double =`

`nativeMath.max(a, b)`

`Double.pow(x)` Raises this value to the power [x]. Special cases: `b.pow(0.0)` is `1.0`, `b.pow(1.0) == b`, `b.pow(NaN)` is `NaN`, `NaN.pow(x)` is `NaN` for `x != 0.0`, `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`, `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun Double.pow(x: Double): Double =`

`nativeMath.pow(this, x)`

`Double.pow(n)` Raises this value to the integer power [n]. See the other overload of `[pow]` for details.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun Double.pow(n: Int): Double =`

`nativeMath.pow(this, n.toDouble())`

`Double.absoluteValue` Returns the absolute value of this value. Special cases: `NaN.absoluteValue` is `NaN`. @see `abs` function.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)`

`Double.sign` Returns the sign of this value: `-1.0` if the value is negative, `0` if the value is zero, `1.0` if the value is positive. Special case: `NaN.sign` is `NaN`.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline val Double.sign: Double get() = nativeMath.sign(this)`

`Double.withSign(sign)` Returns this value with the sign bit same as of the `[sign]` value.

`@SinceKotlin("1.2")` `@InlineOnly` `public actual inline fun Double.withSign(sign: Int):`

`Double = this.withSign(sign.toDouble())`

`Double.ulp` Returns the ulp (unit in the last place) of this value. An ulp is a positive distance between this value and the next nearest `[Double]` value larger in magnitude. Special Cases: `NaN.ulp` is `NaN`, `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`, `0.0.ulp` is `Double.MIN_VALUE`.

`@SinceKotlin("1.2")` `public actual val Double.ulp: Double get() = when {`

`this < 0 -> (-this).ulp`

`this.isNaN() || this == Double.POSITIVE_INFINITY -> this`

`this ==`

`Double.MAX_VALUE -> this - this.nextDown()`

`else -> this.nextUp() - this`

`}`

`Double.nextUp()` Returns the `[Double]` value nearest to this value in direction of positive infinity.

`@SinceKotlin("1.2")` `public actual fun`

`Double.nextUp(): Double = when {`

`this.isNaN() || this == Double.POSITIVE_INFINITY -> this`

`this == 0.0 -> Double.MIN_VALUE`

`else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)`

`}`

Returns the [Double] value nearest to this value in direction of negative infinity.

```

*@SinceKotlin("1.2")public actual fun Double.nextDown(): Double = when {
    this.isNaN() || this == Double.NEGATIVE_INFINITY -> this
    this == 0.0 -> -Double.MIN_VALUE
    else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)
}

```

Returns the [Double] value nearest to this value in direction from this value towards the value [to].

Special cases:

- `-x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`
- `-x.nextTowards(x) == x`

```

*@SinceKotlin("1.2")public actual fun Double.nextTowards(to: Double): Double = when {
    this.isNaN() || to.isNaN() -> Double.NaN
    to == this -> to
    to > this -> this.nextUp()
    else /* to < this */ -> this.nextDown()
}

```

Rounds this [Double] value to the nearest integer and converts the result to [Int].

Ties are rounded towards positive infinity.

Special cases:

- `-x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
- `-x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`

@throws `IllegalArgumentException` when this value is `NaN`

```

*@SinceKotlin("1.2")public actual fun Double.roundToInt(): Int = when {
    isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")
    this > Int.MAX_VALUE -> Int.MAX_VALUE
    this < Int.MIN_VALUE -> Int.MIN_VALUE
    else -> nativeMath.round(this).unsafeCast<Double>().toInt()
}

```

Rounds this [Double] value to the nearest integer and converts the result to [Long].

Ties are rounded towards positive infinity.

Special cases:

- `-x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
- `-x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`

@throws `IllegalArgumentException` when this value is `NaN`

```

*@SinceKotlin("1.2")public actual fun Double.roundToLong(): Long = when {
    isNaN() -> throw IllegalArgumentException("Cannot round NaN value.")
    this > Long.MAX_VALUE -> Long.MAX_VALUE
    this < Long.MIN_VALUE -> Long.MIN_VALUE
    else -> nativeMath.round(this).unsafeCast<Double>().toLong()
}

```

Float Math

Computes the sine of the angle [x] given in radians.

Special cases:

- `-sin(NaN|+Inf|-Inf)` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()

```

Computes the cosine of the angle [x] given in radians.

Special cases:

- `-cos(NaN|+Inf|-Inf)` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()

```

Computes the tangent of the angle [x] given in radians.

Special cases:

- `-tan(NaN|+Inf|-Inf)` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()

```

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(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()

```

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(x)` is `NaN`, when `abs(x) > 1` or `x` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()

```

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(NaN)` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()

```

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`; the returned value is an angle in the range from `-PI` to `PI` radians.

Special cases:

- `-atan2(0.0, 0.0)` is `0.0`
- `-atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`
- `-atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`
- `-atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`
- `-atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`
- `-atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`
- `-atan2(+Inf, x)` is `PI/2` for finite `x`
- `-atan2(-Inf, x)` is `-PI/2` for finite `x`
- `-atan2(NaN, x)` and `-atan2(y, NaN)` is `NaN`

```

*@SinceKotlin("1.2")@InlineOnlypublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()

```

Computes the hyperbolic sine of

the value [x].
Special cases: $\sinh(\text{NaN})$ is NaN $\sinh(+\text{Inf})$ is $+\text{Inf}$ $\sinh(-\text{Inf})$ is $-\text{Inf}$
`nativeMath.sinh(x.toDouble()).toFloat()`
Computes the hyperbolic cosine of the value [x].
Special cases: $\cosh(\text{NaN})$ is NaN $\cosh(+\text{Inf}-\text{Inf})$ is $+\text{Inf}$
`nativeMath.cosh(x.toDouble()).toFloat()`
Computes the hyperbolic tangent of the value [x].
Special cases: $\tanh(\text{NaN})$ is NaN $\tanh(+\text{Inf})$ is 1.0 $\tanh(-\text{Inf})$ is -1.0
`nativeMath.tanh(x.toDouble()).toFloat()`
Computes the inverse hyperbolic sine of the value [x].
The returned value is y such that $\sinh(y) == x$.
Special cases: $\text{asinh}(\text{NaN})$ is NaN $\text{asinh}(+\text{Inf})$ is $+\text{Inf}$ $\text{asinh}(-\text{Inf})$ is $-\text{Inf}$
`nativeMath.asinh(x.toDouble()).toFloat()`
Computes the inverse hyperbolic cosine of the value [x].
The returned value is positive y such that $\cosh(y) == x$.
Special cases: $\text{acosh}(\text{NaN})$ is NaN $\text{acosh}(x)$ is NaN when $x < 1$ $\text{acosh}(+\text{Inf})$ is $+\text{Inf}$
`nativeMath.acosh(x.toDouble()).toFloat()`
Computes the inverse hyperbolic tangent of the value [x].
The returned value is y such that $\tanh(y) == x$.
Special cases: $\text{atanh}(\text{NaN})$ is NaN $\text{atanh}(x)$ is NaN when $x > 1$ or $x < -1$ $\text{atanh}(1.0)$ is $+\text{Inf}$ $\text{atanh}(-1.0)$ is $-\text{Inf}$
`nativeMath.atanh(x.toDouble()).toFloat()`
Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow.
Special cases: returns $+\text{Inf}$ if any of arguments is infinite returns NaN if any of arguments is NaN and the other is not infinite
`nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()`
Computes the positive square root of the value [x].
Special cases: \sqrt{x} is NaN when $x < 0$ or x is NaN
`nativeMath.sqrt(x.toDouble()).toFloat()`
Computes Euler's number e raised to the power of the value [x].
Special cases: $\exp(\text{NaN})$ is NaN $\exp(+\text{Inf})$ is $+\text{Inf}$ $\exp(-\text{Inf})$ is 0.0
`nativeMath.exp(x.toDouble()).toFloat()`
Computes $\exp(x) - 1$.
This function can be implemented to produce more precise result for [x] near zero.
Special cases: $\text{expm1}(\text{NaN})$ is NaN $\text{expm1}(+\text{Inf})$ is $+\text{Inf}$ $\text{expm1}(-\text{Inf})$ is -1.0
@see [exp] function.
`nativeMath.expm1(x.toDouble()).toFloat()`
Computes the logarithm of the value [x] to the given [base].
Special cases: $\log(x, b)$ is NaN if either x or b are NaN $\log(x, b)$ is NaN when $x < 0$ or $b <= 0$ or $b == 1.0$ $\log(+\text{Inf}, +\text{Inf})$ is NaN $\log(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$ and $-\text{Inf}$ for $b < 1$ $\log(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b > 1$
See also logarithm functions for common fixed bases: [ln], [log10] and [log2].
`nativeMath.log(x.toDouble(), base.toDouble()).toFloat()`
Computes the natural logarithm (base E) of the value [x].
Special cases: $\ln(\text{NaN})$ is NaN $\ln(x)$ is NaN when $x < 0.0$ $\ln(+\text{Inf})$ is $+\text{Inf}$ $\ln(0.0)$ is $-\text{Inf}$
`nativeMath.log(x.toDouble(), base.toDouble()).toFloat()`
Computes the common logarithm (base 10) of the value [x].
@see [ln] function for special cases.
`nativeMath.log10(x.toDouble()).toFloat()`
Computes the binary logarithm (base 2) of the value [x].
@see [ln] function for special cases.
`nativeMath.log2(x.toDouble()).toFloat()`
Computes $\ln(a + 1)$.
This function can be implemented to produce more precise result for [x] near zero.
Special cases: $\ln1p(\text{NaN})$ is NaN $\ln1p(x)$ is NaN where $x < -1.0$ $\ln1p(-1.0)$ is $-\text{Inf}$ $\ln1p(+\text{Inf})$ is $+\text{Inf}$
@see [ln] function

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@see [expm1] function\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float =
nativeMath.log1p(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards positive
infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a
mathematical integer.\n\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a
mathematical integer.\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float =
nativeMath.ceil(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards negative
infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a
mathematical integer.\n\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a
mathematical integer.\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float =
nativeMath.floor(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n\n *
@return the value [x] having its fractional part truncated.\n\n * Special cases:\n * - `truncate(x)` is `x` where `x`
is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic
actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x]
towards the closest integer with ties rounded towards even integer.\n\n * Special cases:\n * - `round(x)` is `x`
where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun round(x: Float): Float =
round(x.toDouble()).toFloat()\n\n/**\n * Returns the absolute value of the given value [x].\n\n * Special cases:\n
* - `abs(NaN)` is `NaN`\n\n * @see absoluteValue extension property for [Float]\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float =
nativeMath.abs(x.toDouble()).toFloat()\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is
negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n\n * Special case:\n * - `sign(NaN)`
is `NaN`\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float =
nativeMath.sign(x.toDouble()).toFloat()\n\n/**\n * Returns the smaller of two values.\n\n * If either value is
`NaN`, then the result is `NaN`.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Float, b:
Float): Float = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n\n * If either value is `NaN`,
then the result is `NaN`.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float):
Float = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n\n * Special
cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is
`NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x`
is finite and not an integer\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float):
Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises this value to the integer power
[n].\n\n * See the other overload of [pow] for details.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the
absolute value of this value.\n\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n\n * @see abs function\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() =
nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is
negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n\n * Special case:\n * - `NaN.sign` is
`NaN`\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.sign: Float get() =
nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign]
value.\n\n * If [sign] is `NaN` the sign of the result is undefined.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n\n * Ties are rounded towards positive infinity.\n\n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n\n * @throws IllegalArgumentException when this value is `NaN`\n\n *^@\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =

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toDouble().roundToInt()\n\n**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x
< Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*\n\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n// endregion\n\n// region ===== Integer Math
=====
\n\n**\n * Returns the absolute value of the given value
[n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see
absoluteValue extension property for [Int]\n *\n\n// TODO: remove manual 'or' when KT-19290 is
fixed\n\n@SinceKotlin("1.2")\n\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n**\n * Returns the
smaller of two values.\n *\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n**\n * Returns the greater of two values.\n
\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -
`Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n**\n *
Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value
is positive\n *\n\n@SinceKotlin("1.2")\n\npublic actual val Int.sign: Int get() = when {\n    this < 0 -> -1\n    this > 0 -
> 1\n    else -> 0\n}\n\n**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * -
`abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension
property for [Long]\n *\n\n@SinceKotlin("1.2")\n\npublic actual fun abs(n: Long): Long = if (n < 0) -n else
n\n\n**\n * Returns the smaller of two values.\n
\n\n@SinceKotlin("1.2")\n\n@Suppress("NOTHING_TO_INLINE")\n\npublic actual inline fun min(a: Long, b:
Long): Long = if (a <= b) a else b\n\n**\n * Returns the greater of two values.\n
\n\n@SinceKotlin("1.2")\n\n@Suppress("NOTHING_TO_INLINE")\n\npublic actual inline fun max(a: Long, b:
Long): Long = if (a >= b) a else b\n\n**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * -
`Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*\n\n@SinceKotlin("1.2")\n\n@InlineOnly\n\npublic actual inline val Long.absoluteValue: Long get() =
abs(this)\n\n**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n
*\n * - `1` if the value is positive\n *\n\n@SinceKotlin("1.2")\n\npublic actual val Long.sign: Int get() = when {\n    this
< 0 -> -1\n    this > 0 -> 1\n    else -> 0\n}\n\n// endregion\n","/**\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n**\n * Returns `true` if the specified
number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n *\n\npublic actual fun Double.isNaN(): Boolean =
this != this\n\n**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n
*\n\npublic actual fun Float.isNaN(): Boolean = this != this\n\n**\n * Returns `true` if this value is infinitely large in
magnitude.\n *\n\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this ==
Double.NEGATIVE_INFINITY\n\n**\n * Returns `true` if this value is infinitely large in magnitude.\n *\n\npublic
actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this ==
Float.NEGATIVE_INFINITY\n\n**\n * Returns `true` if the argument is a finite floating-point value; returns
`false` otherwise (for `NaN` and infinity arguments).\n *\n\npublic actual fun Double.isFinite(): Boolean =
!isInfinite() && !isNaN()\n\n**\n * Returns `true` if the argument is a finite floating-point value; returns `false`
otherwise (for `NaN` and infinity arguments).\n *\n\npublic actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n**\n * Counts the number of set bits in the binary representation of this [Int] number.\n
\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic actual fun Int.countOneBits(): Int {\n    // Hacker's
Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\n    v = (v and
0x33333333) + (v.ushr(2) and 0x33333333)\n    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\n    v = (v
and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n    v = (v and 0x0000FFFF) + (v.ushr(16))\n    return

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v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of
this [Int] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@Suppress("DEPRECATION")\n@kotlin.internal.InlineO
nly\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\n\n/**\n * Counts the
number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic 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\n/**\n * Returns a number having a single bit set in the position of
the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.takeHighestOneBit(): Int =\n if (this
== 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n * Returns a number having a single bit set
in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.takeLowestOneBit(): Int =\n //
Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n this and -this\n\n/**\n * Rotates the binary
representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\n
shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n * Rotates the binary representation of this [Int] number
right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter
the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is
the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n
* Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n
shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/**\n * Counts the number of set bits in the binary
representation of this [Long] number.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun
Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.countLeadingZeroBits(): Int =\n
when (val high = this.high) {\n 0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n else ->
high.countLeadingZeroBits()\n }\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Long] number.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic
actual fun Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is
zero.\n *\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.takeHighestOneBit(): Long
=\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(), 0)\n else -> Long(0,
high.takeHighestOneBit())\n }\n\n/**\n * Returns a number having a single bit set in the position of the least
significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic actual fun Long.takeLowestOneBit(): Long =\n
when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n else ->
Long(low.takeLowestOneBit(), 0)\n }\n\n/**\n * Rotates the binary representation of this [Long] number left by
the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is
the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n

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reference for the given `KClass`.
\n *\/nval <T : Any> KClass<T>.js: JsClass<T>\n    get() = (this as
KClassImpl<T>).jClass\n\n/**\n * Obtains a `KClass` instance for the given constructor reference.\n *\/nval <T :
Any> JsClass<T>.kotlin: KClass<T>\n    get() = getKClass(this)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n *\/n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.reflect.*\n\ninternal abstract class KClassImpl<T : Any>(\n    internal open val jClass: JsClass<T>)\n) :
KClass<T> {\n    override val annotations: List<Annotation>\n        get() = TODO()\n    override val constructors:
Collection<KFunction<T>>\n        get() = TODO()\n    override val isAbstract: Boolean\n        get() = TODO()\n    override val isCompanion: Boolean\n        get() = TODO()\n    override val isData: Boolean\n        get() = TODO()\n    override val isFinal: Boolean\n        get() = TODO()\n    override val isInner: Boolean\n        get() = TODO()\n    override val isOpen: Boolean\n        get() = TODO()\n    override val isSealed: Boolean\n        get() = TODO()\n    override val members: Collection<KCallable<*>>\n        get() = TODO()\n    override val nestedClasses:
Collection<KClass<*>>\n        get() = TODO()\n    override val objectInstance: T?\n        get() = TODO()\n    override val qualifiedName: String?\n        get() = TODO()\n    override val supertypes: List<KType>\n        get() =
TODO()\n    override val typeParameters: List<KTypeParameter>\n        get() = TODO()\n    override val
sealedSubclasses: List<KClass<out T>>\n        get() = TODO()\n    override val visibility: KVisibility?\n        get() =
TODO()\n\n    override fun equals(other: Any?): Boolean {\n        return other is KClassImpl<*> && jClass ==
other.jClass\n    }\n\n    // TODO: use FQN\n    override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n    override fun toString(): String {\n        // TODO: use FQN\n        return "\"class $simpleName\"\n    }\n}\n\ninternal
class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n    override val simpleName:
String? = jClass.asDynamic().`$metadata$`.simpleName.unsafeCast<String?>()\n\n    override fun
isInstance(value: Any?): Boolean {\n        return jsIsType(value, jClass)\n    }\n}\n\ninternal class
PrimitiveKClassImpl<T : Any>(\n    jClass: JsClass<T>,\n    private val givenSimpleName: String,\n    private val
isInstanceFunction: (Any?) -> Boolean)\n) : KClassImpl<T>(jClass) {\n    override fun equals(other: Any?): Boolean
{\n        if (other !is PrimitiveKClassImpl<*>) return false\n        return super.equals(other) && givenSimpleName
== other.givenSimpleName\n    }\n\n    override val simpleName: String? get() = givenSimpleName\n\n    override
fun isInstance(value: Any?): Boolean {\n        return isInstanceFunction(value)\n    }\n}\n\ninternal object
NothingKClassImpl : KClassImpl<Nothing>(js("Object")) {\n    override val simpleName: String =
"Nothing"\n\n    override fun isInstance(value: Any?): Boolean = false\n\n    override val jClass:
JsClass<Nothing>\n        get() = throw UnsupportedOperationException("There's no native JS class for Nothing
type")\n\n    override fun equals(other: Any?): Boolean = other === this\n\n    override fun hashCode(): Int =
0\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\/n\n// a
package is omitted to get declarations directly under the module\n\n// TODO: Remove once
JsReflectionAPICallChecker supports more reflection types\n\n@file:Suppress("Unsupported")\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("createKType")\n\ninternal fun createKType(\n
classifier: KClassifier,\n    arguments: Array<KTypeProjection>,\n    isMarkedNullable: Boolean)\n) =\n    KTypeImpl(classifier, arguments.asList(), isMarkedNullable)\n\n@JsName("createDynamicKType")\n\ninternal fun
createDynamicKType(): KType = DynamicKType\n\n@JsName("markKTypeNullable")\n\ninternal fun
markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments,
true)\n\n@JsName("createKTypeParameter")\n\ninternal fun createKTypeParameter(\n    name: String,\n
upperBounds: Array<KType>,\n    variance: String)\n) : KTypeParameter {\n    val kVariance = when (variance) {\n
    "in" -> KVariance.IN\n    "out" -> KVariance.OUT\n    else -> KVariance.INVARIANT\n    }\n\n    return
KTypeParameterImpl(name, upperBounds.asList(), kVariance,
false)\n}\n\n@JsName("getStarKTypeProjection")\n\ninternal fun getStarKTypeProjection(): KTypeProjection =\n    KTypeProjection.STAR\n\n@JsName("createCovariantKTypeProjection")\n\ninternal fun
createCovariantKTypeProjection(type: KType): KTypeProjection =\n    KTypeProjection.covariant(type)\n\n@JsName("createInvariantKTypeProjection")\n\ninternal fun

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createInvariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.invariant(type)\n\n@JsName("createContravariantKTypeProjection")\n\ninternal fun
createContravariantKTypeProjection(type: KType): KTypeProjection =\n
KTypeProjection.contravariant(type)\n", "/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n    override val classifier: KClassifier,\n    override val arguments: List<KTypeProjection>,\n    override val isMarkedNullable: Boolean\n) : KType {\n    override val annotations: List<Annotation>\n        get() =
emptyList()\n\n    override fun equals(other: Any?): Boolean =\n        other is KTypeImpl &&\n            classifier
== other.classifier && arguments == other.arguments && isMarkedNullable == other.isMarkedNullable\n\n    override fun hashCode(): Int =\n        (classifier.hashCode() * 31 + arguments.hashCode()) * 31 +
isMarkedNullable.hashCode()\n\n    override fun toString(): String {\n        val kClass = (classifier as? KClass<*>)\n\n        val classifierName = when {\n            kClass == null -> classifier.toString()\n            kClass.simpleName != null
-> kClass.simpleName\n            else -> "(non-denotable type)"\n        }\n\n        val args =\n            if
(arguments.isEmpty()) ""\n            else arguments.joinToString(", ", "<", ">") { it.asString() }\n\n        val
nullable = if (isMarkedNullable) "?"\n            else ""\n\n        return classifierName + args + nullable\n    }\n\n    // TODO:
this should be the implementation of KTypeProjection.toString, see KT-30071\n\n    private fun
KTypeProjection.asString(): String {\n        if (variance == null) return "*" \n        return variance.prefixString() +
type.toString()\n    }\n}\n\ninternal object DynamicKType : KType {\n    override val classifier: KClassifier? =
null\n    override val arguments: List<KTypeProjection> = emptyList()\n    override val isMarkedNullable: Boolean
= false\n    override val annotations: List<Annotation> = emptyList()\n    override fun toString(): String =
"dynamic"\n}\n\ninternal fun KVariance.prefixString() =\n    when (this) {\n        KVariance.INVARIANT ->
""\n        KVariance.IN -> "in "\n        KVariance.OUT -> "out "\n    }\n", "/*\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n    override val name: String,\n    override val
upperBounds: List<KType>,\n    override val variance: KVariance,\n    override val isReified: Boolean\n) :
KTypeParameter {\n    override fun toString(): String = name\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport
kotlin.js.JsClass\n\n@JsName("PrimitiveClasses")\n\ninternal object PrimitiveClasses {\n\n    @JsName("anyClass")\n    val anyClass = PrimitiveKClassImpl(js("Object").unsafeCast<JsClass<Any>>(),
"Any", { it is Any })\n\n    @JsName("numberClass")\n    val numberClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Number>>(), "Number", { it is Number })\n\n    @JsName("nothingClass")\n    val nothingClass = NothingKClassImpl\n\n    @JsName("booleanClass")\n    val
booleanClass = PrimitiveKClassImpl(js("Boolean").unsafeCast<JsClass<Boolean>>(), "Boolean", { it is Boolean
})\n\n    @JsName("byteClass")\n    val byteClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Byte>>(), "Byte", { it is Byte })\n\n    @JsName("shortClass")\n    val shortClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Short>>(),
"Short", { it is Short })\n\n    @JsName("intClass")\n    val intClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Int>>(), "Int", { it is Int })\n\n    @JsName("floatClass")\n    val floatClass = PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Float>>(),
"Float", { it is Float })\n\n    @JsName("doubleClass")\n    val doubleClass =
PrimitiveKClassImpl(js("Number").unsafeCast<JsClass<Double>>(), "Double", { it is Double })\n\n    @JsName("arrayClass")\n    val arrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<Array<*>>>(), "Array", { it is Array<*> })\n\n    @JsName("stringClass")\n    val stringClass = PrimitiveKClassImpl(js("String").unsafeCast<JsClass<String>>(),
"String", { it is String })\n\n    @JsName("throwableClass")\n    val throwableClass =

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PrimitiveKClassImpl(js("Error").unsafeCast<JsClass<Throwable>>(), "Throwable", { it is Throwable })\n\n
@JsName("booleanArrayClass")\n val booleanArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<BooleanArray>>(), "BooleanArray", { it is BooleanArray
})\n\n @JsName("charArrayClass")\n val charArrayClass =
PrimitiveKClassImpl(js("Uint16Array").unsafeCast<JsClass<CharArray>>(), "CharArray", { it is CharArray
})\n\n @JsName("byteArrayClass")\n val byteArrayClass =
PrimitiveKClassImpl(js("Int8Array").unsafeCast<JsClass<ByteArray>>(), "ByteArray", { it is ByteArray })\n\n
@JsName("shortArrayClass")\n val shortArrayClass =
PrimitiveKClassImpl(js("Int16Array").unsafeCast<JsClass<ShortArray>>(), "ShortArray", { it is ShortArray
})\n\n @JsName("intArrayClass")\n val intArrayClass =
PrimitiveKClassImpl(js("Int32Array").unsafeCast<JsClass<IntArray>>(), "IntArray", { it is IntArray })\n\n
@JsName("longArrayClass")\n val longArrayClass =
PrimitiveKClassImpl(js("Array").unsafeCast<JsClass<LongArray>>(), "LongArray", { it is LongArray })\n\n
@JsName("floatArrayClass")\n val floatArrayClass =
PrimitiveKClassImpl(js("Float32Array").unsafeCast<JsClass<FloatArray>>(), "FloatArray", { it is FloatArray
})\n\n @JsName("doubleArrayClass")\n val doubleArrayClass =
PrimitiveKClassImpl(js("Float64Array").unsafeCast<JsClass<DoubleArray>>(), "DoubleArray", { it is
DoubleArray })\n\n @JsName("functionClass")\n fun functionClass(arity: Int): KClassImpl<Any> {\n
return functionClasses.get(arity) ?: run {\n val result =
PrimitiveKClassImpl(js("Function").unsafeCast<JsClass<Any>>(), "Function$arity",\n
{ jsTypeOf(it) === "function" && it.asDynamic().length === arity })\n functionClasses.asDynamic()[arity]
= result\n result\n }\n }\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0),"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n a package is omitted to get declarations directly under the module\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName("getKClass")\ninternal fun <T : Any>
getKClass(jClass: JsClass<T>): KClass<T> =
getOrCreateKClass(jClass)\n\n@JsName("getKClassFromExpression")\ninternal fun <T : Any>
getKClassFromExpression(e: T): KClass<T> =\n when (jsTypeOf(e)) {\n "string" ->
PrimitiveClasses.stringClass\n "number" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n "boolean" -> PrimitiveClasses.booleanClass\n
"function" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n else -> {\n when {\n e
is BooleanArray -> PrimitiveClasses.booleanArrayClass\n e is CharArray ->
PrimitiveClasses.charArrayClass\n e is ByteArray -> PrimitiveClasses.byteArrayClass\n e is
ShortArray -> PrimitiveClasses.shortArrayClass\n e is IntArray -> PrimitiveClasses.intArrayClass\n
e is LongArray -> PrimitiveClasses.longArrayClass\n e is FloatArray ->
PrimitiveClasses.floatArrayClass\n e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n e is
KClass<*> -> KClass::class\n e is Array<*> -> PrimitiveClasses.arrayClass\n else -> {\n
val constructor = js("Object").getPrototypeOf(e).constructor\n when {\n constructor
=== js("Object") -> PrimitiveClasses.anyClass\n constructor === js("Error") ->
PrimitiveClasses.throwableClass\n else -> {\n val jsClass: JsClass<T> =
constructor\n getOrCreateKClass(jsClass)\n }\n }\n }\n }\n }.unsafeCast<KClass<T>>()\n\nprivate fun <T : Any> getOrCreateKClass(jClass: JsClass<T>):
KClass<T> {\n if (jClass === js("String")) return PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n
val metadata = jClass.asDynamic().`$metadata$\`\n\n return if (metadata != null) {\n if (metadata.`$kClass$\`
== null) {\n val kClass = SimpleKClassImpl(jClass)\n metadata.`$kClass$\` = kClass\n kClass\n
} else {\n metadata.`$kClass$\`\n }\n } else {\n SimpleKClassImpl(jClass)\n }\n }\n }"/*\n *
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reversed.\n * \n * Note that the reverse operation may produce new surrogate pairs that were unpaired low-
surrogates and high-surrogates before the operation.\n * For example, reversing `"\uDC00\uD800"` produces
`"\uD800\uDC00"` which is a valid surrogate pair.\n * \n actual fun reverse(): StringBuilder {\n var
reversed = ""\n var index = string.length - 1\n while (index >= 0) {\n val low = string[index--]\n
if (low.isLowSurrogate() && index >= 0) {\n val high = string[index--]\n if
(high.isHighSurrogate()) {\n reversed = reversed + high + low\n } else {\n reversed
= reversed + low + high\n } else {\n reversed += low\n }\n }\n string =
reversed\n return this\n }\n\n /** \n * Appends the string representation of the specified object [value] to
this string builder and returns this instance.\n * \n * The overall effect is exactly as if the [value] were converted
to a string by the `value.toString()` method,\n * and then that string was appended to this string builder.\n * \n
actual fun append(value: Any?): StringBuilder {\n string += value.toString()\n return this\n }\n\n /** \n
* Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n
* \n * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n
* and then that string was appended to this string builder.\n * \n @SinceKotlin("1.3")\n//
@ExperimentalStdlibApi\n actual fun append(value: Boolean): StringBuilder {\n string += value\n return
this\n }\n\n /** \n * Appends characters in the specified character array [value] to this string builder and
returns this instance.\n * \n * Characters are appended in order, starting at the index 0.\n * \n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun append(value: CharArray): StringBuilder {\n
string += value.concatToString()\n return this\n }\n\n /** \n * Appends the specified string [value] to this
string builder and returns this instance.\n * \n @SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n actual
fun append(value: String): StringBuilder {\n this.string += value\n return this\n }\n\n /** \n * Returns
the current capacity of this string builder.\n * \n * The capacity is the maximum length this string builder can
have before an allocation occurs.\n * \n * In Kotlin/JS implementation of StringBuilder the value returned from
this method may not indicate the actual size of the backing storage.\n * \n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun capacity(): Int = if (this.asDynamic()._capacity !== undefined)
maxOf(this.asDynamic()._capacity, length) else length\n\n /** \n * Ensures that the capacity of this string
builder is at least equal to the specified [minimumCapacity].\n * \n * If the current capacity is less than the
[minimumCapacity], a new backing storage is allocated with greater capacity.\n * Otherwise, this method takes
no action and simply returns.\n * \n * In Kotlin/JS implementation of StringBuilder the size of the backing
storage is not extended to comply the given [minimumCapacity],\n * thus calling this method has no effect on the
further performance of operations.\n * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun
ensureCapacity(minimumCapacity: Int) {\n if (minimumCapacity > capacity()) {\n
this.asDynamic()._capacity = minimumCapacity\n }\n }\n\n /** \n * Returns the index within this string
builder of the first occurrence of the specified [string].\n * \n * Returns -1 if the specified [string] does not
occur in this string builder.\n * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun
indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n /** \n * Returns the index within this
string builder of the first occurrence of the specified [string],\n * starting at the specified [startIndex].\n * \n *
Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
* \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun indexOf(string: String, startIndex: Int): Int
= this.string.asDynamic().indexOf(string, startIndex)\n\n /** \n * Returns the index within this string builder of
the last occurrence of the specified [string].\n * The last occurrence of empty string `""` is considered to be at the
index equal to `this.length`.\n * \n * Returns -1 if the specified [string] does not occur in this string builder.\n
* \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun lastIndexOf(string: String): Int =
this.string.asDynamic().lastIndexOf(string)\n\n /** \n * Returns the index within this string builder of the last
occurrence of the specified [string],\n * starting from the specified [startIndex] toward the beginning.\n * \n *
Returns -1 if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
* \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun lastIndexOf(string: String, startIndex: Int):
Int {\n if (string.isEmpty() && startIndex < 0) return -1\n return this.string.asDynamic().lastIndexOf(string,

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startIndex)\n } \n\n /**\n * Inserts the string representation of the specified boolean [value] into this string
builder at the specified [index] and returns this instance.\n *\n * The overall effect is exactly as if the [value]
were converted to a string by the `value.toString()` method,\n * and then that string was inserted into this string
builder at the specified [index].\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or
greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: Boolean): String Builder {\n    AbstractList.checkPositionIndex(index,
length)\n\n    string = string.substring(0, index) + value + string.substring(index)\n    return this\n } \n\n
/**\n * Inserts the specified character [value] into this string builder at the specified [index] and returns this
instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of
this string builder.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int,
value: Char): String Builder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string =
string.substring(0, index) + value + string.substring(index)\n    return this\n } \n\n /**\n * Inserts characters
in the specified character array [value] into this string builder at the specified [index] and returns this instance.\n
*\n * The inserted characters go in same order as in the [value] character array, starting at [index].\n *\n *
@throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: CharArray):
String Builder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) +
value.concatToString() + string.substring(index)\n    return this\n } \n\n /**\n * Inserts characters in the
specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n
* The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n *
@param index the position in this string builder to insert at.\n * @param value the character sequence from which
characters are inserted. If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are inserted.\n
*\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: CharSequence?):
String Builder {\n    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) +
value.toString() + string.substring(index)\n    return this\n } \n\n /**\n * Inserts the string representation of
the specified object [value] into this string builder at the specified [index] and returns this instance.\n *\n * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n * and then
that string was inserted into this string builder at the specified [index].\n *\n * @throws
IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun insert(index: Int, value: Any?): String Builder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    string = string.substring(0, index) + value.toString() +
string.substring(index)\n    return this\n } \n\n /**\n * Inserts the string [value] into this string builder at the
specified [index] and returns this instance.\n *\n * @throws IndexOutOfBoundsException if [index] is less than
zero or greater than the length of this string builder.\n *\n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n
actual fun insert(index: Int, value: String): String Builder {\n
    AbstractList.checkPositionIndex(index, length)\n\n    this.string = this.string.substring(0, index) + value +
this.string.substring(index)\n    return this\n } \n\n /**\n * Sets the length of this string builder to the
specified [newLength].\n *\n * If the [newLength] is less than the current length, it is changed to the specified
[newLength].\n * Otherwise, null characters `'\u0000'` are appended to this string builder until its length is less
than the [newLength].\n *\n * Note that in Kotlin/JS [set] operator function has non-constant execution time
complexity.\n * Therefore, increasing length of this string builder and then updating each character by index may
slow down your program.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if
[newLength] is less than zero.\n *\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n
actual fun
setLength(newLength: Int) {\n    if (newLength < 0) {\n        throw IllegalArgumentException("\u0022Negative new
length: $newLength.\u0022")\n    }\n\n    if (newLength <= length) {\n        string = string.substring(0,
newLength)\n    } else {\n        for (i in length until newLength) {\n            string += `'\u0000`\n        }\n
    }\n\n } \n\n /**\n * Returns a new [String] that contains characters in this string builder at [startIndex]

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(inclusive) and up to the [length] (exclusive).\n * \n * @throws IndexOutOfBoundsException if [startIndex] is
less than zero or greater than the length of this string builder.\n * \n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n actual fun substring(startIndex: Int): String {\n
AbstractList.checkPositionIndex(startIndex, length)\n\n return string.substring(startIndex)\n }\n\n /** \n *
Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the
[endIndex] (exclusive).\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when
[startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * \n
@SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun substring(startIndex: Int, endIndex: Int): String
{\n\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n return string.substring(startIndex,
endIndex)\n }\n\n /** \n * Attempts to reduce storage used for this string builder.\n * \n * If the backing
storage of this string builder is larger than necessary to hold its current contents,\n * then it may be resized to
become more space efficient.\n * Calling this method may, but is not required to, affect the value of the [capacity]
property.\n * \n * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal
to the length of the string builder.\n * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n actual fun
trimToSize() {\n\n if (this.asDynamic()._capacity !== undefined) {\n\n this.asDynamic()._capacity =
length\n\n }\n }\n\n override fun toString(): String = string\n\n /** \n * Clears the content of this string
builder making it empty and returns this instance.\n * \n * @sample samples.text.Strings.clearStringBuilder\n
*\n @SinceKotlin("1.3")\n public fun clear(): StringBuilder {\n\n string = ""\n\n return this\n }\n\n
/** \n * Sets the character at the specified [index] to the specified [value].\n * \n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n * \n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n public operator fun set(index: Int, value: Char) {\n
AbstractList.checkElementIndex(index, length)\n\n string = string.substring(0, index) + value +
string.substring(index + 1)\n\n }\n\n /** \n * Replaces characters in the specified range of this string builder with
characters in the specified string [value] and returns this instance.\n * \n * @param startIndex the beginning
(inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n *
@param value the string to replace with.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or
`startIndex > endIndex`.\n * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public fun
setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n\n checkReplaceRange(startIndex,
endIndex, length)\n\n this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n
\n return this\n }\n\n private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n\n if
(startIndex < 0 || startIndex > length) {\n\n throw IndexOutOfBoundsException("startIndex: $startIndex,
length: $length")\n\n }\n\n if (startIndex > endIndex) {\n\n throw
IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")\n\n }\n }\n\n /** \n *
Removes the character at the specified [index] from this string builder and returns this instance.\n * \n * If the
`Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire
supplementary character.\n * \n * @param index the index of `Char` to remove.\n * \n * @throws
IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n * \n @SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n public fun deleteAt(index: Int): StringBuilder {\n
AbstractList.checkElementIndex(index, length)\n\n string = string.substring(0, index) + string.substring(index +
1)\n\n return this\n }\n\n /** \n * Removes characters in the specified range from this string builder and
returns this instance.\n * \n * @param startIndex the beginning (inclusive) of the range to remove.\n *
@param endIndex the end (exclusive) of the range to remove.\n * \n * @throws IndexOutOfBoundsException
or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >
endIndex`.\n * \n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n public fun deleteRange(startIndex:
Int, endIndex: Int): StringBuilder {\n\n checkReplaceRange(startIndex, endIndex, length)\n\n string =
string.substring(0, startIndex) + string.substring(endIndex)\n\n return this\n }\n\n /** \n * Copies characters
from this string builder into the [destination] character array.\n * \n * @param destination the array to copy to.\n

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    * @param destinationOffset the position in the array to copy to, 0 by default.\n
    * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n
    * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n
    * \n
    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n
    * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n
    * or when that index is out of the [destination] array indices range.\n
    * \n
    @SinceKotlin("1.3")\n
    @ExperimentalStdlibApi\n
    public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n
        AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n
        AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n
        var dstIndex = destinationOffset\n
        for (index in startIndex until endIndex) {\n
            destination[dstIndex++] = string[index]\n
        }\n
    }\n
    /**\n
    * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n
    * \n
    * Characters are appended in order, starting at specified [startIndex].\n
    * \n
    * @param value the array from which characters are appended.\n
    * @param startIndex the beginning (inclusive) of the subarray to append.\n
    * @param endIndex the end (exclusive) of the subarray to append.\n
    * \n
    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
    * \n
    @SinceKotlin("1.3")\n
    @ExperimentalStdlibApi\n
    public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): String Builder {\n
        string += value.concatToString(startIndex, endIndex)\n
        return this\n
    }\n
    /**\n
    * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n
    * \n
    * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n
    * then characters are appended as if [value] contained the four characters `\"null\"`.\n
    * \n
    * @param startIndex the beginning (inclusive) of the subsequence to append.\n
    * @param endIndex the end (exclusive) of the subsequence to append.\n
    * \n
    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
    * \n
    @SinceKotlin("1.3")\n
    @ExperimentalStdlibApi\n
    public fun appendRange(value: CharSequence?, startIndex: Int, endIndex: Int): String Builder {\n
        val stringCsq = value.toString()\n
        AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n
        string += stringCsq.substring(startIndex, endIndex)\n
        return this\n
    }\n
    /**\n
    * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n
    * \n
    * The inserted characters go in same order as in the [value] array, starting at [index].\n
    * \n
    * @param index the position in this string builder to insert at.\n
    * @param value the array from which characters are inserted.\n
    * @param startIndex the beginning (inclusive) of the subarray to insert.\n
    * @param endIndex the end (exclusive) of the subarray to insert.\n
    * \n
    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n
    * \n
    * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n
    * \n
    @SinceKotlin("1.3")\n
    @ExperimentalStdlibApi\n
    public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): String Builder {\n
        AbstractList.checkPositionIndex(index, this.length)\n
        string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n
        return this\n
    }\n
    /**\n
    * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n
    * \n
    * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n
    * \n
    * @param index the position in this string builder to insert at.\n
    * @param value the character sequence from which a subsequence is inserted. If [value] is `null`,\n
    * then characters will be inserted as if [value] contained the four characters `\"null\"`.\n
    * \n
    * @param startIndex the beginning (inclusive) of the subsequence to insert.\n
    * @param endIndex the end (exclusive) of the subsequence to insert.\n
    * \n
    * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
    * \n
    * @throws IndexOutOfBoundsException if [index] is less than zero or

```



```

@param endIndex the end (exclusive) of the subarray to append.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\n public actual inline fun StringBuilder.appendRange(value: CharArray, startIndex:
Int, endIndex: Int): StringBuilder =\n     this.appendRange(value, startIndex, endIndex)\n\n **\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n * \n *
@param value the character sequence from which a subsequence is appended. If [value] is `null`,\n * then
characters are appended as if [value] contained the four characters `"\n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n
*\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex > endIndex`.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\n public actual inline fun StringBuilder.appendRange(value: CharSequence?,
startIndex: Int, endIndex: Int): StringBuilder =\n     this.appendRange(value, startIndex, endIndex)\n\n **\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n * \n * The inserted characters go in same order as in the [value] array, starting at [index].\n
*\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters
are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the
end (exclusive) of the subarray to insert.\n * \n * @throws IndexOutOfBoundsException or
[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when
`startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the
length of this string builder.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\n public actual inline fun StringBuilder.insertRange(index: Int, value: CharArray,
startIndex: Int, endIndex: Int): StringBuilder =\n     this.insertRange(index, value, startIndex, endIndex)\n\n **\n *
Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified
[index] and returns this instance.\n * \n * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n * \n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted. If [value] is `null`,\n * then characters will be inserted
as if [value] contained the four characters `"\n * @param startIndex the beginning (inclusive) of the
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n
*\n @SinceKotlin("1.3")\n @ExperimentalStdlibApi\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER\
", "NOTHING_TO_INLINE")\n public actual inline fun StringBuilder.insertRange(index: Int, value:
CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n     this.insertRange(index, value, startIndex,
endIndex)\n\n **\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n package kotlin.text\n // actually \s is enough to match all whitespace, but \xA0 added because of different
regex behavior of Rhino used in Selenium tests\n public actual fun Char.isWhitespace(): Boolean =
toString().matches("[\n @kotlin.internal.InlineOnly\n public actual inline fun Char.toLowerCase():
Char =
js("String.fromCharCode")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n @kotlin.internal.
InlineOnly\n public actual inline fun Char.toUpperCase(): Char =
js("String.fromCharCode")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n **\n * Returns
`true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n

```

```

*\npublic actual fun Char.isHighSurrogate(): Boolean = this in
Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n**\n * Returns `true` if this character is a
Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n *\npublic actual fun
Char.isLowSurrogate(): Boolean = this in
Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n", "/"**\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n *\npackage kotlin.text\n\n**\n * Returns `true` if
the contents of this string is equal to the word `true`, ignoring case, and `false` otherwise.\n *\npublic actual fun
String.toBoolean(): Boolean = toLowerCase() == `true`\n\n**\n * Parses the string as a signed [Byte] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
**\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\n\n**\n * Parses the string
as a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n *\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?:
numberFormatError(this)\n\n**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual fun
String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\n\n**\n * Parses the string as a [Short]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
**\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n**\n *
Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n *\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatError(this)\n\n**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n *\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n**\n *
Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not
a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for
string to number conversion.\n *\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?:
numberFormatError(this)\n\n**\n * Parses the string as a [Double] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n *\npublic actual fun
String.toDouble(): Double = +(this.asDynamic()).unsafeCast<Double>().also {\n    if (it.isNaN() && !this.isNaN())
|| it == 0.0 && this.isBlank())\n        numberFormatError(this)\n\n**\n * Parses the string as a [Float] number
and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n *\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n *\npublic actual fun String.toDoubleOrNull(): Double? =
+(this.asDynamic()).unsafeCast<Double>().takeIf {\n    !(it.isNaN() && !this.isNaN()) || it == 0.0 &&
this.isBlank()}\n\n**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n *\n@kotlin.internal.InlineOnly\npublic actual inline fun
String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n**\n * Returns a string representation
of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n *\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual
inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n**\n * Returns a string representation of
this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid
radix for number to string conversion.\n *\n@SinceKotlin("1.2")\n@kotlin.internal.InlineOnly\npublic actual

```



```

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.toString().nativeReplace(nativePattern, replacement)

/**
 * Replaces all occurrences of this regular expression in the specified [input] string with the result of
 * the given function [transform] that takes [MatchResult] and returns a string to be used as a
 * replacement for that match.
 */
public actual inline fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {
    var match = find(input)
    if (match == null) return input.toString()
    var lastStart = 0
    val length = input.length
    val sb = StringBuilder(length)
    do {
        val foundMatch = match!!
        sb.append(input, lastStart, foundMatch.range.start)
        sb.append(transform(foundMatch))
        lastStart = foundMatch.range.endInclusive + 1
        match = foundMatch.next()
    } while (lastStart < length && match != null)
    if (lastStart < length) {
        sb.append(input, lastStart, length)
    }
    return sb.toString()
}

/**
 * Replaces the first occurrence 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 replaceFirst(input: CharSequence, replacement: String): String {
    val nonGlobalOptions = options.map { it.value }.joinToString(separator = "\\")
    return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)
}

/**
 * Splits the [input] CharSequence around matches of this regular expression.
 *
 * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.
 * Zero by default means no limit is set.
 */
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun split(input: CharSequence, limit: Int = 0): List<String> {
    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.
 *
 * Note that another regular expression constructed from the same pattern string may have different [options] and may match strings differently.
 */
public override fun toString(): String = nativePattern.toString()

actual companion object {
    /**
     * Returns a regular expression that matches the specified [literal] string literally.
     * No characters of that string will have special meaning when searching for an occurrence of the regular expression.
     */
    public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))

    /**
     * Returns a regular expression pattern string that matches the specified [literal] string literally.
     * No characters of that string will have special meaning when searching for an occurrence of the regular expression.
     */
    public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\|\\$&\\")

    /**
     * Returns a literal replacement expression for the specified [literal] string.
     * No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function.
     */
    public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\$\\$\\$")

    private val patternEscape = Regex("\\\\|\\[-\\\\\\^$*+?.()|\\[\\]{}\\|'\"\\", \"g\")
    private val replacementEscape = Regex("\\|\"'\\$\\|'\"\\", \"g\")
}

/**
 * Creates a regular expression from the specified [pattern] string and the specified single [option].
 */
@Deprecated("Provided for binary compatibility", level =

```



```

actual fun String.decapitalize(): String {
    return if (isEmpty()) substring(0, 1).toLowerCase() + substring(1)
    else this[0].toLowerCase() + substring(1)
}

/** Returns a string containing this char sequence repeated [n] times.
 * @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
                }
                return result
            }
        }
    }
}

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(Regex.escape(oldValue), if (ignoreCase) "gi" else "g"),
    Regex.escapeReplacement(newValue))

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT")
public actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(Regex.escape(oldChar.toString()), if (ignoreCase) "gi" else "g"),
    newChar.toString())

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =
    nativeReplace(Regex.escape(oldValue), if (ignoreCase) "i" else ""),
    Regex.escapeReplacement(newValue))

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT")
public actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =
    nativeReplace(Regex.escape(oldChar.toString()), if (ignoreCase) "i" else ""),
    newChar.toString())

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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 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.
 */
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)
}

/** Returns code point corresponding to 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 [index].
 * 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 0x1E == 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 0xF8
}

/** Returns code point corresponding to UTF-8 sequence of three bytes,
 * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].
 * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence
 * if the sequence is malformed and [throwOnMalformed] is false.
 * @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is true.
 */
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) {\n        // Non-shortest form\n        return malformed(0, index, throwOnMalformed)\n    }\n    } else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            // Surrogate code point\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0 != 0x80) {\n        return\n        malformed(0, index, throwOnMalformed)\n    }\n    }\n    if (index + 1 == endIndex) {\n        return malformed(1, index,\n        throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return\n        malformed(1, index, throwOnMalformed)\n    }\n    return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -\n    0x1E080)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n * where the first byte\n * of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-\n * positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is\n * malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of four\n * bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1:\n    Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        malformed(0,\n        index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0x0) {\n        if\n        (byte2 and 0xF0 <= 0x80) {\n            // Non-shortest form\n            return malformed(0, index,\n            throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0x4) {\n        if (byte2 and 0xF0 != 0x80) {\n            //\n            Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index,\n            throwOnMalformed)\n        }\n    } else if (byte1 and 0xF > 0x4) {\n        return malformed(0, index,\n        throwOnMalformed)\n    } else if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index,\n        throwOnMalformed)\n    }\n    }\n    if (index + 1 == endIndex) {\n        return malformed(1, index,\n        throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return\n        malformed(1, index, throwOnMalformed)\n    }\n    }\n    if (index + 2 == endIndex) {\n        return malformed(2, index,\n        throwOnMalformed)\n    }\n    val byte4 = bytes[index + 2].toInt()\n    if (byte4 and 0xC0 != 0x80) {\n        return\n        malformed(2, index, throwOnMalformed)\n    }\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor\n    byte4 xor 0x381F80)\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n * Code points in\n * `0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points\n * in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in\n * `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in\n * `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate\n    const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is\n * replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),\n    0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to\n * encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param\n * throwOnMalformed whether to throw on malformed char sequence or replace by the\n * [REPLACEMENT_BYTE_SEQUENCE].\n * @throws CharacterCodingException if the char sequence is\n * malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:\n    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\n    byteIndex = 0\n    var charIndex = startIndex\n    while (charIndex < endIndex) {\n        val code =\n        string[charIndex++].toInt()\n        when {\n            code < 0x80 -> bytes[byteIndex++] = code.toByte()\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            code < 0xD800 || code >= 0xE000 ->\n            {\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n                bytes[byteIndex++] = (((code shr 9)\n                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++] =\n                    REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] =\n                    REPLACEMENT_BYTE_SEQUENCE[1]\n                }\n            }\n        }\n    }\n}

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REPLACEMENT_BYTE_SEQUENCE[2]\n          } else {\n          bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n          bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n          bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n          bytes[byteIndex++] =
(((codePoint and 0x3F) or 0x80).toByte()\n          charIndex++\n          }\n          }\n          }\n          }\n
return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed
UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = "\uFFFF"\n\n/**\n *
Decodes the UTF-8 [bytes] array and returns the resulting [String].\n */\n * @param bytes the byte array to decode.\n
* @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset
(exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte
sequence or replace by the [REPLACEMENT_CHAR].\n */\n * @throws CharacterCodingException if the array is
malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray,
startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <=
bytes.size && startIndex <= endIndex)\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n
while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n                stringBuilder.append(byte.toChar())\n            byte shr 5 == -2 -> {\n                val code =
codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n
stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n
stringBuilder.append(code.toChar())\n                    byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -
> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if
(code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n
                } else {\n                    stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n
            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex,
throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n
                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n
                    val low = (code and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n
stringBuilder.append(low.toChar())\n                    byteIndex += 3\n                }\n            }\n            else -> {\n
                malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n
            }\n        }\n    }\n    return stringBuilder.toString()\n}\n\n"/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic actual enum class DurationUnit(internal val
scale: Double) {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n     */\n    NANOSECONDS(1e0),\n    /**\n     * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n     */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit representing one millisecond, which is 1/1000 of a
second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time unit representing one second.\n     */\n    SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n    MINUTES(60e9),\n    /**\n     * Time
unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n     * Time unit representing one day, which is
always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal
actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n    val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n        sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value /
(targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
org.w3c.performance.GlobalPerformance\nimport
org.w3c.performance.Performance\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal actual object
MonotonicTimeSource : TimeSource {\n    private val actualSource: TimeSource = run {\n        val isNode:
Boolean = js("typeof process !== 'undefined' && process.versions && !!process.versions.node")\n        if

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(isNode)\n      HrTimeSource(js(\\"process\\").unsafeCast<Process>())\n      else\njs(\\"self\\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n      ?:\nDateNowTimeSource\n\n    }\n\n    override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal\nexternal interface Process {\n    fun hrtime(time: Array<Double> = definedExternally):\nArray<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class HrTimeSource(val process:\nProcess) : TimeSource {\n    override fun markNow(): TimeMark = object : TimeMark() {\n        val startedAt =\nprocess.hrtime()\n        override fun elapsedNow(): Duration =\n            process.hrtime(startedAt).let { (seconds,\nnanos) -> seconds.seconds + nanos.nanoseconds }\n    }\n\n    override fun toString(): String =\n\\\"TimeSource(process.hrtime())\\\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class\nPerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit =\nDurationUnit.MILLISECONDS) {\n    override fun read(): Double = performance.now()\n    override fun toString():\nString = \\\"TimeSource(self.performance.now())\\\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal\nobject DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n    override\nfun read(): Double = kotlin.js.Date.now()\n    override fun toString(): String = \\\"TimeSource(Date.now())\\\", \"/*\n\n* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n* Use of this source code\nis governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n*/\n\npackage\nkotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.*\n\ninternal actual fun formatToExactDecimals(value:\nDouble, decimals: Int): String {\n    val rounded = if (decimals == 0) {\n        value\n    } else {\n        val pow =\n10.0.pow(decimals)\n        @Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\n        kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)\n    }\n    return\nrounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n}\n\ninternal actual fun\nformatUpToDecimals(value: Double, decimals: Int): String {\n    return value.asDynamic().toLocaleString(\\"en-us\\",\njson(\\"maximumFractionDigits\\\" to decimals)).unsafeCast<String>()\n}\n\ninternal actual fun\nformatScientific(value: Double): String {\n    return\nvalue.asDynamic().toExponential(2).unsafeCast<String>()\n}, \"/*\n\n* Copyright 2010-2019 JetBrains s.r.o. and\nKotlin Programming Language contributors.\n* Use of this source code is governed by the Apache 2.0 license that\ncan be found in the license/LICENSE.txt file.\n*/\n\npackage org.w3c.dom\n\n@Deprecated(\\"Use\nUnionMessagePortOrWindowProxy instead.\", ReplaceWith(\\"UnionMessagePortOrWindowProxy\\\"))\ninterface UnionMessagePortOrWindowProxy\n\n@Deprecated(\\"Use `as` instead.\",\nReplaceWith(\\"`as`\\\"))\nvar HTMLLinkElement.as_ get() = `as`\n set(value) {\n    `as` = value\n}\n\n@Deprecated(\\"Use `is` instead.\", ReplaceWith(\\"`is`\\\"))\nvar ElementCreationOptions.is_ get() = `is`\n set(value) {\n    `is` = value\n}, \"/*\n\n* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming\nLanguage contributors.\n* Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See\ngithub.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport\norg.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport\norg.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport\norg.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport\norg.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport\norg.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface\nWebGLContextAttributes {\n    var alpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =\ndefinedExternally\n    var depth: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =\ndefinedExternally\n    var stencil: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =\ndefinedExternally\n    var antialias: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =\ndefinedExternally\n    var premultipliedAlpha: Boolean? /* = true */\n        get() = definedExternally\n        set(value) =\ndefinedExternally\n    var preserveDrawingBuffer: Boolean? /* = false */\n        get() =\ndefinedExternally\n        set(value) = definedExternally\n    var preferLowPowerToHighPerformance: Boolean? /* =\nfalse */\n        get() = definedExternally\n        set(value) = definedExternally\n    var failIfMajorPerformanceCaveat:

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Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? =
true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? =
true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false,
failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n    val o = js("{}")\n
o["alpha"] = alpha\n    o["depth"] = depth\n    o["stencil"] = stencil\n    o["antialias"] = antialias\n
o["premultipliedAlpha"] = premultipliedAlpha\n    o["preserveDrawingBuffer"] = preserveDrawingBuffer\n
o["preferLowPowerToHighPerformance"] = preferLowPowerToHighPerformance\n
o["failIfMajorPerformanceCaveat"] = failIfMajorPerformanceCaveat\n    return o\n}\n\npublic external abstract
class WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\npublic external
abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic
external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external
abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic
external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external
abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external
abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript
[WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n
*/\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript
[WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic
external abstract class WebGLActiveInfo {\n    open val size: Int\n    open val type: Int\n    open val name:
String\n}\n\n/**\n * Exposes the JavaScript
[WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to
Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n    open val rangeMin: Int\n    open val
rangeMax: Int\n    open val precision:
Int\n}\n\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
WebGLRenderingContextBase {\n    val canvas: HTMLCanvasElement\n    val drawingBufferWidth: Int\n    val
drawingBufferHeight: Int\n    fun getContextAttributes(): WebGLContextAttributes?\n    fun isContextLost():
Boolean\n    fun getSupportedExtensions(): Array<String>?\n    fun getExtension(name: String): dynamic\n    fun
activeTexture(texture: Int)\n    fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n    fun
bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n    fun bindBuffer(target: Int, buffer:
WebGLBuffer?)\n    fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n    fun
bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n    fun bindTexture(target: Int, texture:
WebGLTexture?)\n    fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n    fun
blendEquation(mode: Int)\n    fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n    fun
blendFunc(sfactor: Int, dfactor: Int)\n    fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:
Int)\n    fun bufferData(target: Int, size: Int, usage: Int)\n    fun bufferData(target: Int, data: BufferDataSource?,
usage: Int)\n    fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n    fun
checkFramebufferStatus(target: Int): Int\n    fun clear(mask: Int)\n    fun clearColor(red: Float, green: Float, blue:
Float, alpha: Float)\n    fun clearDepth(depth: Float)\n    fun clearStencil(s: Int)\n    fun colorMask(red: Boolean,
green: Boolean, blue: Boolean, alpha: Boolean)\n    fun compileShader(shader: WebGLShader?)\n    fun
compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data:
ArrayBufferView)\n    fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int,

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height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int,
x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int,
yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer():
WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer():
WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n
fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer:
WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer:
WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture:
WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float,
zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n
fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun
drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun
enableVertexAttribArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun
generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n
fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun
getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program:
WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun
getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int,
attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n
fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname:
Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun
getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun
getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n
fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location:
WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String):
WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun
getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer:
WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer:
WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n
fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program:
WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun
renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float,
invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?,
source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref:
Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun
stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n
fun
texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels:
ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source:
TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int,
pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,
format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun

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uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float, w: Float)\n fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun
uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location:
WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v:
Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun
uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun
useProgram(program: WebGLProgram?)\n fun validateProgram(program: WebGLProgram?)\n fun
vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun
vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun
vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun
vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n
fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun
viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val DEPTH_BUFFER_BIT: Int\n
val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES:
Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val
TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val
SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val
ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n
val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n
val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val
BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT:
Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n
val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val
ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val
ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n
val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val
ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n
val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val
CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK:
Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n
val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val
SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n
val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val
OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val

```

ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val
 CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val
 DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val
 STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val
 STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF:
 Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val
 STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val
 STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val
 STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
 STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
 COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n
 val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n
 val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n
 val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val
 POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val
 TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val
 SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val
 COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val
 NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE:
 Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
 val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val
 UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val
 UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n
 val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val
 MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS:
 Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n
 val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val
 SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n
 val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:
 Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val
 NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val
 TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n
 val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val
 TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val
 MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val

TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n
 val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val
 FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val
 INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val
 BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n
 val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED:
 Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n
 val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n
 val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
 Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val
 IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val
 LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n
 val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:
 Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16:
 Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val
 RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val
 RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val
 RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val
 RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val
 RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
 val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val
 FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val
 FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0:
 Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val
 DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n
 val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val
 FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val
 FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n
 val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val
 MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val
 UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
 CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
 BROWSER_DEFAULT_WEBGL: Int\n }}\n\n**\n * Exposes the JavaScript
 [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
 *\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
 companion object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val
 COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val
 LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN:
 Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR:
 Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val
 ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n
 val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val
 BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT:
 Int\n val FUNC_REVERSE_SUBTRACT: Int\n val BLEND_DST_RGB: Int\n val
 BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val

CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA:
 Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val
 ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING:
 Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val
 STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val
 BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK:
 Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER:
 Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val
 POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val
 SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val
 INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW:
 Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val
 ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n
 val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val
 DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val
 STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS:
 Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK:
 Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val
 STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val
 STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val
 STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val
 COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n
 val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n
 val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n
 val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val
 POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val
 TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val
 SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val
 COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val
 NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE:
 Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n
 val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val
 RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val
 UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val
 UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n
 val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val
 MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val
 MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS:
 Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n
 val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val
 SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val
 LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n
 val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n
 val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val
 VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR:
 Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val
 NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val

TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n
 val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val
 TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val
 TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val
 MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val
 TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val
 TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val
 TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val
 TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val
 TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val
 TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val
 TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val
 TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n
 val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val
 FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val
 INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val
 BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n
 val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED:
 Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n
 val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n
 val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING:
 Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val
 IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val
 LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n
 val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER:
 Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16:
 Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val
 RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val
 RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val
 RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val
 RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val
 RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
 val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val
 FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val
 FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0:
 Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val
 DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n
 val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val
 FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val
 FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n
 val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val
 MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val
 UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
 CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
 BROWSER_DEFAULT_WEBGL: Int\n }}\n\n\n * Exposes the JavaScript
 [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n


```

*  

public external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =  

definedExternally) : Event {  

    open val statusMessage: String  

    companion object {  

        val NONE: Short  

        val CAPTURING_PHASE: Short  

        val AT_TARGET: Short  

        val BUBBLING_PHASE: Short  

    }  

}
public external interface WebGLContextEventInit : EventInit {  

    var statusMessage: String? /* = "" */  

    get() = definedExternally  

    set(value) = definedExternally  

}
@kotlin.internal.InlineOnly  

public inline fun WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false,  

composed: Boolean? = false): WebGLContextEventInit {  

    val o = js("{}")  

    o["statusMessage"] = statusMessage  

    o["bubbles"] = bubbles  

    o["cancelable"] = cancelable  

    o["composed"] = composed  

return o  

}
**  

* Exposes the JavaScript  

[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin  

public external open class ArrayBuffer(length: Int) : BufferDataSource {  

    open val byteLength: Int  

    fun slice(begin: Int, end: Int = definedExternally): ArrayBuffer  

    companion object {  

        fun isView(value: Any?): Boolean  

    }  

}
**  

* Exposes the JavaScript  

[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin  

public external interface ArrayBufferView : BufferDataSource {  

    val buffer: ArrayBuffer  

    val byteOffset: Int  

    val byteLength: Int  

}
**  

* Exposes the JavaScript  

[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin  

public external open class Int8Array : ArrayBufferView {  

    constructor(length: Int)  

    constructor(array: Int8Array)  

    constructor(array: Array<Byte>)  

    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)  

    open val length: Int  

    override val buffer: ArrayBuffer  

    override val byteOffset: Int  

    override val byteLength: Int  

    fun set(array: Int8Array, offset: Int = definedExternally)  

    fun set(array: Array<Byte>, offset: Int = definedExternally)  

    fun subarray(start: Int, end: Int): Int8Array  

    companion object {  

        val BYTES_PER_ELEMENT: Int  

    }  

}
@kotlin.internal.InlineOnly  

public inline operator fun Int8Array.get(index: Int): Byte = asDynamic()[index]  

@kotlin.internal.InlineOnly  

public inline operator fun Int8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }
**  

* Exposes the JavaScript  

[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin  

public external open class Uint8Array : ArrayBufferView {  

    constructor(length: Int)  

    constructor(array: Uint8Array)  

    constructor(array: Array<Byte>)  

    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)  

    open val length: Int  

    override val buffer: ArrayBuffer  

    override val byteOffset: Int  

    override val byteLength: Int  

    fun set(array: Uint8Array, offset: Int = definedExternally)  

    fun set(array: Array<Byte>, offset: Int = definedExternally)  

    fun subarray(start: Int, end: Int): Uint8Array  

    companion object {  

        val BYTES_PER_ELEMENT: Int  

    }  

}
@kotlin.internal.InlineOnly  

public inline operator fun Uint8Array.get(index: Int): Byte = asDynamic()[index]  

@kotlin.internal.InlineOnly  

public inline operator fun Uint8Array.set(index: Int, value: Byte) { asDynamic()[index] = value }
**  

* Exposes the JavaScript  

[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin  

public external open class Uint8ClampedArray : ArrayBufferView {  

    constructor(length: Int)  

    constructor(array: Uint8ClampedArray)  

    constructor(array: Array<Byte>)  

    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)  

    open val length: Int  

    override val buffer: ArrayBuffer  

    override val byteOffset: Int  

    override val byteLength: Int  

    fun set(array: Uint8ClampedArray, offset: Int = definedExternally)  

    fun set(array: Array<Byte>, offset: Int = definedExternally)  

    fun subarray(start: Int, end: Int): Uint8ClampedArray  

    companion object {  

        val BYTES_PER_ELEMENT: Int  

    }  

}
@kotlin.internal.InlineOnly  

public inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]  

@kotlin.internal.InlineOnly  

public inline operator fun Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }
**  

* Exposes the JavaScript  

[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin  

public external open class Int16Array : ArrayBufferView {  

    constructor(length: Int)  

    constructor(array: Int16Array)  

    constructor(array: Array<Short>)  

    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)  

    open val length: Int  

    override val buffer: ArrayBuffer  

    override val byteOffset:

```

```

Int\n  override val byteLength: Int\n  fun set(array: Int16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Int16Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Int16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic external open
class Uint16Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint16Array)\n
constructor(array: Array<Short>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Uint16Array, offset: Int = definedExternally)\n  fun set(array:
Array<Short>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Uint16Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Uint16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external open class
Int32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
override val byteLength: Int\n  fun set(array: Int32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Int32Array\n\n  companion object
{\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Int32Array.get(index: Int): Int = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open
class Uint32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset: Int\n
override val byteLength: Int\n  fun set(array: Uint32Array, offset: Int = definedExternally)\n  fun set(array:
Array<Int>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Uint32Array\n\n  companion
object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n */\npublic external open
class Float32Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array: Float32Array)\n
constructor(array: Array<Float>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n  override val byteOffset:
Int\n  override val byteLength: Int\n  fun set(array: Float32Array, offset: Int = definedExternally)\n  fun
set(array: Array<Float>, offset: Int = definedExternally)\n  fun subarray(start: Int, end: Int): Float32Array\n\n
companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the
JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n */\npublic
external open class Float64Array : ArrayBufferView {\n  constructor(length: Int)\n  constructor(array:
Float64Array)\n  constructor(array: Array<Double>)\n  constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n  open val length: Int\n  override val buffer: ArrayBuffer\n
override val byteOffset: Int\n  override val byteLength: Int\n  fun set(array: Float64Array, offset: Int =
definedExternally)\n  fun set(array: Array<Double>, offset: Int = definedExternally)\n  fun subarray(start: Int,
end: Int): Float64Array\n\n  companion object {\n    val BYTES_PER_ELEMENT: Int\n  }\n}

```



```

org.w3c.dom.clipboard.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
MediaList : ItemArrayLike<String> {\n  open var mediaText: String\n  fun appendMedium(medium: String)\n
fun deleteMedium(medium: String)\n  override fun item(index: Int):
String?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int): String? =
asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\npublic external abstract
class StyleSheet {\n  open val type: String\n  open val href: String?\n  open val ownerNode:
UnionElementOrProcessingInstruction?\n  open val parentStyleSheet: StyleSheet?\n  open val title: String?\n
open val media: MediaList\n  open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\npublic external
abstract class CSSStyleSheet : StyleSheet {\n  open val ownerRule: CSSRule?\n  open val cssRules:
CSSRuleList\n  fun insertRule(rule: String, index: Int): Int\n  fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\npublic
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n  override fun item(index: Int):
StyleSheet?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\npublic external interface
LinkStyle {\n  val sheet: StyleSheet?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\npublic external abstract
class CSSRuleList : ItemArrayLike<CSSRule> {\n  override fun item(index: Int):
CSSRule?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? =
asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\npublic external abstract class
CSSRule {\n  open val type: Short\n  open var cssText: String\n  open val parentRule: CSSRule?\n  open val
parentStyleSheet: CSSStyleSheet?\n\n  companion object {\n    val STYLE_RULE: Short\n    val
CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\npublic external
abstract class CSSStyleRule : CSSRule {\n  open var selectorText: String\n  open val style:
CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE:
Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n
val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n  open val href: String\n  open val media:
MediaList\n  open val styleSheet: CSSStyleSheet\n\n  companion object {\n    val STYLE_RULE: Short\n
val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n */\npublic
external abstract class CSSGroupingRule : CSSRule {\n  open val cssRules: CSSRuleList\n  fun insertRule(rule:
String, index: Int): Int\n  fun deleteRule(index: Int)\n\n  companion object {\n    val STYLE_RULE: Short\n
val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val
FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val
NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\npublic external

```

```

abstract class CSSMediaRule : CSSGroupingRule {\n  open val media: MediaList\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n */\npublic external abstract class CSSPageRule : CSSGroupingRule {\n  open var selectorText: String\n  open val style: CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n  open val name: String\n  open val style: CSSStyleDeclaration\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\npublic external abstract class CSSNamespaceRule : CSSRule {\n  open val namespaceURI: String\n  open val prefix: String\n\n  companion object {\n    val STYLE_RULE: Short\n    val CHARSET_RULE: Short\n    val IMPORT_RULE: Short\n    val MEDIA_RULE: Short\n    val FONT_FACE_RULE: Short\n    val PAGE_RULE: Short\n    val MARGIN_RULE: Short\n    val NAMESPACE_RULE: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n  open var cssText: String\n  open val parentRule: CSSRule?\n  open var cssFloat: String\n  open var alignContent: String\n  open var alignItems: String\n  open var alignSelf: String\n  open var animation: String\n  open var animationDelay: String\n  open var animationDirection: String\n  open var animationDuration: String\n  open var animationFillMode: String\n  open var animationIterationCount: String\n  open var animationName: String\n  open var animationPlayState: String\n  open var animationTimingFunction: String\n  open var backfaceVisibility: String\n  open var background: String\n  open var backgroundAttachment: String\n  open var backgroundClip: String\n  open var backgroundColor: String\n  open var backgroundImage: String\n  open var backgroundOrigin: String\n  open var backgroundPosition: String\n  open var backgroundRepeat: String\n  open var backgroundSize: String\n  open var border: String\n  open var borderBottom: String\n  open var borderBottomColor: String\n  open var borderBottomLeftRadius: String\n  open var borderBottomRightRadius: String\n  open var borderBottomStyle: String\n  open var borderBottomWidth: String\n  open var borderCollapse: String\n  open var borderColor: String\n  open var borderImage: String\n  open var borderImageOutset: String\n  open var borderImageRepeat: String\n  open var borderImageSlice: String\n  open var borderImageSource: String\n  open var borderImageWidth: String\n  open var borderLeft: String\n  open var borderLeftColor: String\n  open var borderLeftStyle: String\n  open var borderLeftWidth: String\n  open var borderRadius: String\n  open var borderRight: String\n  open var borderRightColor: String\n  open var borderRightStyle: String\n  open var borderRightWidth: String\n  open var borderSpacing: String\n  open var borderStyle: String\n  open var borderTop: String\n  open var borderTopColor: String\n  open var borderTopLeftRadius: String\n  open var borderTopRightRadius: String\n  open var borderTopStyle: String\n  open var borderTopWidth: String\n  open var borderWidth: String\n  open var bottom: String\n  open var boxDecorationBreak: String\n  open var boxShadow: String\n  open var boxSizing: String\n  open var breakAfter: String\n  open var breakBefore: String\n  open var breakInside: String\n  open var captionSide: String\n  open var clear: String\n  open var clip: String\n  open var color: String\n  open var columnCount: String\n  open var columnFill: String\n  open var columnGap: String\n  open var columnRule: String\n  open var columnRuleColor: String\n  open var columnRuleStyle: String\n  open var columnRuleWidth: String\n  open var columnSpan: String\n  open var columnWidth: String\n  open var columns: String\n  open var content: String\n  open var counterIncrement:

```

String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n open var flexShrink: String\n open var flexWrap: String\n open var font: String\n open var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var justifyContent: String\n open var left: String\n open var letterSpacing: String\n open var lineBreak: String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor: String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent: String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle: String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi: String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace: String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n open var _dashed_attribute: String\n open var _camel_cased_attribute: String\n open var _webkit_cased_attribute: String\n fun getProperty(property: String): String\n fun getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String = definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun setPropertyPriority(property: String, priority: String)\n fun removeProperty(property: String): String\n override fun item(index: Int):

```

String}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSStyleDeclaration.get(index: Int): String? =
asDynamic()[index]\n\npublic external interface ElementCSSInlineStyle {\n    val style:
CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n *\npublic external abstract class CSS {\n
companion object {\n    fun escape(ident: String): String\n    }\n}\n\npublic external interface
UnionElementOrProcessingInstruction","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n *\npublic external open class
UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n    open val view: Window?\n
open val detail: Int\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n
val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface UIEventInit :
EventInit {\n    var view: Window? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n    var detail: Int? /* = 0 */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun UIEventInit(view: Window? = null, detail:
Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\n
val o = js("{}")\n    o["view"] = view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"]
= cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n *\npublic external open class
FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n    open val relatedTarget:
EventTarget?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface FocusEventInit :
UIEventInit {\n    var relatedTarget: EventTarget? /* = null */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget: EventTarget?
= null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): FocusEventInit {\n    val o = js("{}")\n    o["relatedTarget"] = relatedTarget\n    o["view"] =
view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n *\npublic external open
class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent,
UnionElementOrMouseEvent {\n    open val screenX: Int\n    open val screenY: Int\n    open val clientX: Int\n
open val clientY: Int\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n    open val altKey: Boolean\n
open val metaKey: Boolean\n    open val button: Short\n    open val buttons: Short\n    open val relatedTarget:
EventTarget?\n    open val region: String?\n    open val pageX: Double\n    open val pageY: Double\n    open val x:
Double\n    open val y: Double\n    open val offsetX: Double\n    open val offsetY: Double\n    fun
getModifierState(keyArg: String): Boolean\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n    var screenX: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var screenY: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var clientX: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var clientY: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var button: Short? /* = 0 */\n        get() =

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definedExternally\n    set(value) = definedExternally\n    var buttons: Short? /* = 0 */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var relatedTarget: EventTarget? /* = null */\n    get()
= definedExternally\n    set(value) = definedExternally\n    var region: String? /* = null */\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons:
Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean?
= false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MouseEventInit {\n    val o = js("{}")\n    o["screenX"] = screenX\n    o["screenY"] = screenY\n
o["clientX"] = clientX\n    o["clientY"] = clientY\n    o["button"] = button\n    o["buttons"] = buttons\n
o["relatedTarget"] = relatedTarget\n    o["region"] = region\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] =
shiftKey\n    o["altKey"] = altKey\n    o["metaKey"] = metaKey\n    o["modifierAltGraph"] =
modifierAltGraph\n    o["modifierCapsLock"] = modifierCapsLock\n    o["modifierFn"] = modifierFn\n
o["modifierFnLock"] = modifierFnLock\n    o["modifierHyper"] = modifierHyper\n    o["modifierNumLock"] =
modifierNumLock\n    o["modifierScrollLock"] = modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n    o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] =
view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =
composed\n    return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n    var ctrlKey: Boolean?
/* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var shiftKey: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var altKey: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var metaKey: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierAltGraph: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierCapsLock: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var modifierFn: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierFnLock: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierHyper: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierNumLock: Boolean? /* = false */\n
get() = definedExternally\n    set(value) = definedExternally\n    var modifierScrollLock: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var modifierSuper: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var modifierSymbol: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n    var modifierSymbolLock: Boolean? /* =
false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n    val o = js("{}")\n    o["ctrlKey"] = ctrlKey\n    o["shiftKey"] = shiftKey\n
o["altKey"] = altKey\n    o["metaKey"] = metaKey\n    o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n    o["modifierFn"] = modifierFn\n    o["modifierFnLock"] =
modifierFnLock\n    o["modifierHyper"] = modifierHyper\n    o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n    o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n    o["modifierSymbolLock"] = modifierSymbolLock\n    o["view"] =
view\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] =

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composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open
class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n open val
deltaX: Double\n open val deltaY: Double\n open val deltaZ: Double\n open val deltaMode: Int\n\n companion object {\n val DOM_DELTA_PIXEL: Int\n val DOM_DELTA_LINE: Int\n val
DOM_DELTA_PAGE: Int\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WheelEventInit :
MouseEventInit {\n var deltaX: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaY: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaZ: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaMode: Int? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n val o = js("{}")\n
o["deltaX"] = deltaX\n o["deltaY"] = deltaY\n o["deltaZ"] = deltaZ\n o["deltaMode"] = deltaMode\n
o["screenX"] = screenX\n o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n
o["button"] = button\n o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] =
region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] =
metaKey\n o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n open val data: String\n open val isComposing: Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface InputEventInit : UIEventInit {\n var data: String? /* = "" */\n
get() = definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
InputEventInit(data: String? = "", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n val o =
js("{}")\n o["data"] = data\n o["isComposing"] = isComposing\n o["view"] = view\n o["detail"] =
detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n
open val key: String\n open val code: String\n open val location: Int\n open val ctrlKey: Boolean\n open val
shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val repeat: Boolean\n
open val isComposing: Boolean\n open val charCode: Int\n open val keyCode: Int\n open val which: Int\n
fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val

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DOM_KEY_LOCATION_STANDARD: Int\n    val DOM_KEY_LOCATION_LEFT: Int\n    val
DOM_KEY_LOCATION_RIGHT: Int\n    val DOM_KEY_LOCATION_NUMPAD: Int\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n } \n} \n\npublic external interface KeyboardEventInit : EventModifierInit { \n    var key: String? /* = "" */
*\n    get() = definedExternally\n    set(value) = definedExternally\n    var code: String? /* = "" */ \n    get()
= definedExternally\n    set(value) = definedExternally\n    var location: Int? /* = 0 */ \n    get() =
definedExternally\n    set(value) = definedExternally\n    var repeat: Boolean? /* = false */ \n    get() =
definedExternally\n    set(value) = definedExternally\n    var isComposing: Boolean? /* = false */ \n    get() =
definedExternally\n    set(value) = definedExternally\n} \n} \n\n@kotlin.internal.InlineOnly\npublic inline fun
KeyboardEventInit(key: String? = "", code: String? = "", location: Int? = 0, repeat: Boolean? = false,
isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false,
metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn:
Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock:
Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol:
Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit { \n    val o =
js("{}") \n    o["key"] = key \n    o["code"] = code \n    o["location"] = location \n    o["repeat"] = repeat \n
o["isComposing"] = isComposing \n    o["ctrlKey"] = ctrlKey \n    o["shiftKey"] = shiftKey \n    o["altKey"] =
altKey \n    o["metaKey"] = metaKey \n    o["modifierAltGraph"] = modifierAltGraph \n
o["modifierCapsLock"] = modifierCapsLock \n    o["modifierFn"] = modifierFn \n    o["modifierFnLock"] =
modifierFnLock \n    o["modifierHyper"] = modifierHyper \n    o["modifierNumLock"] = modifierNumLock \n
o["modifierScrollLock"] = modifierScrollLock \n    o["modifierSuper"] = modifierSuper \n
o["modifierSymbol"] = modifierSymbol \n    o["modifierSymbolLock"] = modifierSymbolLock \n    o["view"] =
view \n    o["detail"] = detail \n    o["bubbles"] = bubbles \n    o["cancelable"] = cancelable \n    o["composed"] =
composed \n    return o \n} \n} \n\n/** \n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin \n */ \n\npublic
external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent { \n    open val data: String \n \n    companion object { \n        val NONE: Short \n        val
CAPTURING_PHASE: Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE: Short \n
} \n} \n\npublic external interface CompositionEventInit : UIEventInit { \n    var data: String? /* = "" */ \n    get() =
definedExternally\n    set(value) = definedExternally\n} \n} \n\n@kotlin.internal.InlineOnly\npublic inline fun
CompositionEventInit(data: String? = "", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit { \n    val o = js("{}") \n
o["data"] = data \n    o["view"] = view \n    o["detail"] = detail \n    o["bubbles"] = bubbles \n    o["cancelable"]
= cancelable \n    o["composed"] = composed \n    return o \n} \n} \n\n/** \n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin \n */ \n\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) { \n    open val type: String \n    open val target:
EventTarget? \n    open val currentTarget: EventTarget? \n    open val eventPhase: Short \n    open val bubbles:
Boolean \n    open val cancelable: Boolean \n    open val defaultPrevented: Boolean \n    open val composed:
Boolean \n    open val isTrusted: Boolean \n    open val timeStamp: Number \n    fun composedPath():
Array<EventTarget> \n    fun stopPropagation() \n    fun stopImmediatePropagation() \n    fun preventDefault() \n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean) \n \n    companion object { \n        val NONE:
Short \n        val CAPTURING_PHASE: Short \n        val AT_TARGET: Short \n        val BUBBLING_PHASE:
Short \n    } \n} \n\n/** \n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin \n */ \n\npublic external abstract
class EventTarget { \n    fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally) \n    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally) \n    fun removeEventListener(type: String, callback: EventListener?, options: dynamic =

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definedExternally)\n fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n *\npublic external
interface EventListener {\n fun handleEvent(event: Event)\n}","/**\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.clipboard.*\nimport
org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class
HTMLAllCollection {\n open val length: Int\n fun item(nameOrIndex: String = definedExternally):
UnionElementOrHTMLCollection?\n fun namedItem(name: String):
UnionElementOrHTMLCollection?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? =
asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n *\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value:
String\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n
*\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n override var length: Int\n open
var selectedIndex: Int\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before:
dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option
}\n\n/**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n *\npublic external
abstract class HTMLInputElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers,
ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var
translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n
open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable:
Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var
spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n
open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun focus()\n
fun blur()\n fun forceSpellCheck()\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n

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*/\npublic external abstract class HTMLUnknownElement : HTMLElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n
*/\npublic external
abstract class DOMStringMap\n@kotlin.internal.InlineOnly\npublic inline operator fun
DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes
the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to
Kotlin\n
*/\npublic external abstract class HTMLHtmlElement : HTMLElement {\n  open var version: String\n\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n
*/\npublic
external abstract class HTMLHeadElement : HTMLElement {\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n
*/\npublic
external abstract class HTMLTitleElement : HTMLElement {\n  open var text: String\n\n  companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n
*/\npublic

```

```

external abstract class HTMLBaseElement : HTMLElement {
    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
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

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 var `as`: RequestDestination
    open val relList: DOMTokenList
    open var media: String
    open var nonce: String
    open var hreflang: String
    open var type: 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
    }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }

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_POSITION_CONTAINED_BY: Short
    }
}

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 NOTATION_NODE: Short
        val DOCUMENT_POSITION_DISCONNECTED: Short
        val DOCUMENT_POSITION_PRECEDING: Short
        val DOCUMENT_POSITION_FOLLOWING: Short
        val DOCUMENT_POSITION_CONTAINS: Short
    }
}

```

```

    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n *\npublic
external abstract class HTMLBodyElement : HTMLInputElement, WindowEventHandlers {\n    open var text: String\n
open var link: String\n    open var vLink: String\n    open var aLink: String\n    open var bgColor: String\n    open
var background: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n *\npublic
external abstract class HTMLHeadingElement : HTMLInputElement {\n    open var align: String\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n *\npublic
external abstract class HTMLParagraphElement : HTMLInputElement {\n    open var align: String\n\n    companion
object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n *\npublic
external abstract class HTMLHRElement : HTMLInputElement {\n    open var align: String\n    open var color: String\n
open var noShade: Boolean\n    open var size: String\n    open var width: String\n\n    companion object {\n       
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n *\npublic external abstract class HTMLPreElement : HTMLElement {\n open var width: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n *\npublic external abstract class HTMLQuoteElement : HTMLElement {\n open var cite: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLOListElement) to Kotlin\n *\npublic external abstract class HTMLLOListElement : HTMLElement {\n open var reversed: Boolean\n open var start: Int\n open var type: String\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLUListElement) to Kotlin\n *\npublic external abstract class HTMLLUListElement : HTMLElement {\n open var compact: Boolean\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n *\npublic external abstract class HTMLLIElement : HTMLElement {\n open var value: Int\n open var type: String\n\n


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    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin \n * \n public
external abstract class HTMLTimeElement : HTMLElement { \n    open var dateTime: String \n \n    companion
object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin \n * \n public
external abstract class HTMLSpanElement : HTMLElement { \n    companion object { \n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin \n * \n public
external abstract class HTMLBRElement : HTMLElement { \n    open var clear: String \n \n    companion object { \n
        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to
Kotlin \n * \n public external interface HTMLHyperlinkElementUtils { \n    var href: String\n    val origin: String\n
var protocol: String\n    var username: String\n    var password: String\n    var host: String\n    var hostname:
String\n    var port: String\n    var pathname: String\n    var search: String\n    var hash: String \n} \n \n /** \n * Exposes
the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to
Kotlin \n * \n public external abstract class HTMLModElement : HTMLElement { \n    open var cite: String\n    open

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var dateTime: String\n\n companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\n/**\n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n
*\npublic external abstract class HTMLPictureElement : HTMLElement {\n    companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\n/**\n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n
*\npublic external abstract class HTMLSourceElement : HTMLElement {\n    open var src: String\n    open var
type: String\n    open var srcset: String\n    open var sizes: String\n    open var media: String\n\n    companion object
{\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n
    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val
ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE:
Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n\n/**\n * Exposes the JavaScript
[HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n
*\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement,
TexImageSource {\n    open var alt: String\n    open var src: String\n    open var srcset: String\n    open var sizes:
String\n    open var crossOrigin: String?\n    open var useMap: String\n    open var isMap: Boolean\n    open var
width: Int\n    open var height: Int\n    open val naturalWidth: Int\n    open val naturalHeight: Int\n    open val
complete: Boolean\n    open val currentSrc: String\n    open var referrerPolicy: String\n    open var name: String\n
    open var lowsrc: String\n    open var align: String\n    open var hspace: Int\n    open var vspace: Int\n    open var
longDesc: String\n    open var border: String\n    open val x: Int\n    open val y: Int\n\n    companion object {\n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n
*\npublic external abstract class HTMLIFrameElement : HTMLInputElement {\n    open var src: String\n    open var
srcdoc: String\n    open var name: String\n    open val sandbox: DOMTokenList\n    open var allowFullscreen:
Boolean\n    open var allowUserMedia: Boolean\n    open var width: String\n    open var height: String\n    open var
referrerPolicy: String\n    open val contentDocument: Document?\n    open val contentWindow: Window?\n    open
var align: String\n    open var scrolling: String\n    open var frameBorder: String\n    open var longDesc: String\n
open var marginHeight: String\n    open var marginWidth: String\n    fun getSVGDocument(): Document?\n\n
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n
*\npublic external abstract class HTMLEmbedElement : HTMLInputElement {\n    open var src: String\n    open var
type: String\n    open var width: String\n    open var height: String\n    open var align: String\n    open var name:
String\n    fun getSVGDocument(): Document?\n\n    companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n
*\npublic external abstract class HTMLObjectElement : HTMLInputElement {\n    open var data: String\n    open var
type: String\n    open var typeMustMatch: Boolean\n    open var name: String\n    open var useMap: String\n    open
val form: HTMLFormElement?\n    open var width: String\n    open var height: String\n    open val
contentDocument: Document?\n    open val contentWindow: Window?\n    open val willValidate: Boolean\n    open
val validity: ValidityState\n    open val validationMessage: String\n    open var align: String\n    open var archive:
String\n    open var code: String\n    open var declare: Boolean\n    open var hspace: Int\n    open var standby:
String\n    open var vspace: Int\n    open var codeBase: String\n    open var codeType: String\n    open var border:
String\n    fun getSVGDocument(): Document?\n    fun checkValidity(): Boolean\n    fun reportValidity():
Boolean\n    fun setCustomValidity(error: String)\n\n    companion object {\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n
*\n\npublic external abstract class HTMLParamElement : HTMLElement {\n    open var name: String\n    open var
value: String\n    open var type: String\n    open var valueType: String\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n
*\n\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n
    open var width: Int\n    open var height: Int\n    open val videoWidth: Int\n    open val videoHeight: Int\n
    open var poster: String\n    open var playsInline: Boolean\n\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n        val
NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA: Short\n        val
HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val HAVE_ENOUGH_DATA:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n
*\n\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n    companion object {\n        val
NETWORK_EMPTY: Short\n        val NETWORK_IDLE: Short\n        val NETWORK_LOADING: Short\n
        val NETWORK_NO_SOURCE: Short\n        val HAVE_NOTHING: Short\n        val HAVE_METADATA:
Short\n        val HAVE_CURRENT_DATA: Short\n        val HAVE_FUTURE_DATA: Short\n        val
HAVE_ENOUGH_DATA: Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n
*\n\npublic external abstract class HTMLTrackElement : HTMLElement {\n    open var kind: String\n    open var src: String\n
    open var srclang: String\n    open var label: String\n    open var default: Boolean\n    open val readyState: Short\n
    open val track: TextTrack\n\n    companion object {\n        val NONE: Short\n        val LOADING: Short\n        val

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LOADED: Short\n val ERROR: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
 Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
 ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
 PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
 DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
 DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
 DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
 DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
 [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin \n
 * \n public external abstract class HTMLMediaElement : HTMLElement { \n open val error: MediaError? \n open
 var src: String \n open var srcObject: dynamic \n open val currentSrc: String \n open var crossOrigin: String? \n
 open val networkState: Short \n open var preload: String \n open val buffered: TimeRanges \n open val
 readyState: Short \n open val seeking: Boolean \n open var currentTime: Double \n open val duration: Double \n
 open val paused: Boolean \n open var defaultPlaybackRate: Double \n open var playbackRate: Double \n open
 val played: TimeRanges \n open val seekable: TimeRanges \n open val ended: Boolean \n open var autoplay:
 Boolean \n open var loop: Boolean \n open var controls: Boolean \n open var volume: Double \n open var
 muted: Boolean \n open var defaultMuted: Boolean \n open val audioTracks: AudioTrackList \n open val
 videoTracks: VideoTrackList \n open val textTracks: TextTrackList \n fun load() \n fun canPlayType(type:
 String): CanPlayTypeResult \n fun fastSeek(time: Double) \n fun getStartDate(): dynamic \n fun play():
 Promise<Unit> \n fun pause() \n fun addTextTrack(kind: TextTrackKind, label: String = definedExternally,
 language: String = definedExternally): TextTrack \n \n companion object { \n val NETWORK_EMPTY:
 Short \n val NETWORK_IDLE: Short \n val NETWORK_LOADING: Short \n val
 NETWORK_NO_SOURCE: Short \n val HAVE_NOTHING: Short \n val HAVE_METADATA: Short \n
 val HAVE_CURRENT_DATA: Short \n val HAVE_FUTURE_DATA: Short \n val
 HAVE_ENOUGH_DATA: Short \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n
 val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE:
 Short \n val ENTITY_NODE: Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val
 COMMENT_NODE: Short \n val DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n
 val DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
 DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
 val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
 val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
 DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
 [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin \n * \n public external
 class MediaError { \n open val code: Short \n \n companion object { \n val MEDIA_ERR_ABORTED: Short \n
 val MEDIA_ERR_NETWORK: Short \n val MEDIA_ERR_DECODE: Short \n val
 MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n } \n} \n \n /** \n * Exposes the JavaScript
 [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin \n * \n public external
 abstract class AudioTrackList : EventTarget { \n open val length: Int \n open var onchange: ((Event) ->
 dynamic)? \n open var onaddtrack: ((TrackEvent) -> dynamic)? \n open var onremovetrack: ((TrackEvent) ->
 dynamic)? \n fun getTrackById(id: String): AudioTrack? \n } \n} \n @kotlin.internal.InlineOnly \n public inline operator
 fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index] \n \n /** \n * Exposes the JavaScript
 [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin \n * \n public external
 abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack { \n open val id: String \n open val kind:
 String \n open val label: String \n open val language: String \n open var enabled: Boolean \n } \n \n /** \n * Exposes
 the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin \n

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*\npublic external abstract class VideoTrackList : EventTarget {\n  open val length: Int\n  open val
selectedIndex: Int\n  open var onchange: ((Event) -> dynamic)?\n  open var onaddtrack: ((TrackEvent) ->
dynamic)?\n  open var onremovetrack: ((TrackEvent) -> dynamic)?\n  fun getTrackById(id: String):
VideoTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int):
VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n  open val id: String\n  open val kind:
String\n  open val label: String\n  open val language: String\n  open var selected: Boolean\n}\n\npublic external
abstract class TextTrackList : EventTarget {\n  open val length: Int\n  open var onchange: ((Event) ->
dynamic)?\n  open var onaddtrack: ((TrackEvent) -> dynamic)?\n  open var onremovetrack: ((TrackEvent) ->
dynamic)?\n  fun getTrackById(id: String): TextTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n  open val kind: TextTrackKind\n
open val label: String\n  open val language: String\n  open val id: String\n  open val
inBandMetadataTrackDispatchType: String\n  open var mode: TextTrackMode\n  open val cues:
TextTrackCueList?\n  open val activeCues: TextTrackCueList?\n  open var oncuechange: ((Event) ->
dynamic)?\n  fun addCue(cue: TextTrackCue)\n  fun removeCue(cue: TextTrackCue)\n}\n\npublic external
abstract class TextTrackCueList {\n  open val length: Int\n  fun getCueById(id: String):
TextTrackCue?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index: Int):
TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n */\npublic external
abstract class TextTrackCue : EventTarget {\n  open val track: TextTrack?\n  open var id: String\n  open var
startTime: Double\n  open var endTime: Double\n  open var pauseOnExit: Boolean\n  open var onenter: ((Event)
-> dynamic)?\n  open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract
class TimeRanges {\n  open val length: Int\n  fun start(index: Int): Double\n  fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n  open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface TrackEventInit : EventInit {\n  var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n  val o = js("{}")\n  o["track"] = track\n  o["bubbles"] =
bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n */\npublic external abstract class HTMLElement : HTMLElement {\n  open var name: String\n  open val
areas: HTMLCollection\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n *\npublic
external abstract class HTMLAreaElement : HTMLInputElement, HTMLHyperlinkElementUtils {\n    open var alt:
String\n    open var coords: String\n    open var shape: String\n    open var target: String\n    open var download:
String\n    open var ping: String\n    open var rel: String\n    open val relList: DOMTokenList\n    open var
referrerPolicy: String\n    open var noHref: Boolean\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n *\npublic
external abstract class HTMLTableElement : HTMLInputElement {\n    open var caption:
HTMLTableCaptionElement?\n    open var tHead: HTMLTableSectionElement?\n    open var tFoot:
HTMLTableSectionElement?\n    open val tBodies: HTMLCollection\n    open val rows: HTMLCollection\n    open
var align: String\n    open var border: String\n    open var frame: String\n    open var rules: String\n    open var
summary: String\n    open var width: String\n    open var bgColor: String\n    open var cellPadding: String\n    open
var cellSpacing: String\n    fun createCaption(): HTMLTableCaptionElement\n    fun deleteCaption()\n    fun
createTHead(): HTMLTableSectionElement\n    fun deleteTHead()\n    fun createTFoot():
HTMLTableSectionElement\n    fun deleteTFoot()\n    fun createTBody(): HTMLTableSectionElement\n    fun
insertRow(index: Int = definedExternally): HTMLTableRowElement\n    fun deleteRow(index: Int)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to
Kotlin\n *\npublic external abstract class HTMLTableCaptionElement : HTMLInputElement {\n    open var align:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n *\npublic
external abstract class HTMLTableColElement : HTMLInputElement {\n    open var span: Int\n    open var

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align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var width:
String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to
Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLInputElement {\n open val rows:
HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign:
String\n fun insertRow(index: Int = definedExternally): HTMLInputElement\n fun deleteRow(index: Int)\n\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n
*/\npublic external abstract class HTMLTableRowElement : HTMLInputElement {\n open val rowIndex: Int\n open
val sectionRowIndex: Int\n open val cells: HTMLCollection\n open var align: String\n open var ch: String\n
open var chOff: String\n open var vAlign: String\n open var bgColor: String\n fun insertCell(index: Int =
definedExternally): HTMLInputElement\n fun deleteCell(index: Int)\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n
*/\npublic external abstract class HTMLTableCellElement : HTMLInputElement {\n open var colSpan: Int\n open var
rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr:
String\n open var align: String\n open var axis: String\n open var height: String\n open var width: String\n
open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open
var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\npublic
external abstract class HTMLFormElement : HTMLMElement {\n    open var acceptCharset: String\n    open var
action: String\n    open var autocomplete: String\n    open var enctype: String\n    open var encoding: String\n    open
var method: String\n    open var name: String\n    open var noValidate: Boolean\n    open var target: String\n    open
val elements: HTMLFormControlsCollection\n    open val length: Int\n    fun submit()\n    fun reset()\n    fun
checkValidity(): Boolean\n    fun reportValidity(): Boolean\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
    }n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name:
String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n */\npublic
external abstract class HTMLLabelElement : HTMLMElement {\n    open val form: HTMLFormElement?\n    open
var htmlFor: String\n    open val control: HTMLMElement?\n\n    companion object {\n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n */\npublic
external abstract class HTMLInputElement : HTMLMElement {\n    open var accept: String\n    open var alt: String\n
open var autocomplete: String\n    open var autofocus: Boolean\n    open var defaultChecked: Boolean\n    open var
checked: Boolean\n    open var dirName: String\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open val files: FileList?\n    open var formAction: String\n    open var formEnctype:
String\n    open var formMethod: String\n    open var formNoValidate: Boolean\n    open var formTarget: String\n
open var height: Int\n    open var indeterminate: Boolean\n    open var inputMode: String\n    open val list:
HTMLMElement?\n    open var max: String\n    open var maxLength: Int\n    open var min: String\n    open var
minLength: Int\n    open var multiple: Boolean\n    open var name: String\n    open var pattern: String\n    open var
placeholder: String\n    open var readOnly: Boolean\n    open var required: Boolean\n    open var size: Int\n    open
var src: String\n    open var step: String\n    open var type: String\n    open var defaultValue: String\n    open var
value: String\n    open var valueAsDate: dynamic\n    open var valueAsNumber: Double\n    open var width: Int\n
open val willValidate: Boolean\n    open val validity: ValidityState\n    open val validationMessage: String\n    open
val labels: NodeList\n    open var selectionStart: Int?\n    open var selectionEnd: Int?\n    open var

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selectionDirection: String? \n open var align: String \n open var useMap: String \n fun stepUp(n: Int =
definedExternally) \n fun stepDown(n: Int = definedExternally) \n fun checkValidity(): Boolean \n fun
reportValidity(): Boolean \n fun setCustomValidity(error: String) \n fun select() \n fun
setRangeText(replacement: String) \n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode:
SelectionMode = definedExternally) \n fun setSelectionRange(start: Int, end: Int, direction: String =
definedExternally) \n \n companion object { \n val ELEMENT_NODE: Short \n val ATTRIBUTE_NODE:
Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n val
ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin \n
*\npublic external abstract class HTMLButtonElement : HTMLElement { \n open var autofocus: Boolean \n
open var disabled: Boolean \n open val form: HTMLFormElement? \n open var formAction: String \n open var
formEnctype: String \n open var formMethod: String \n open var formNoValidate: Boolean \n open var
formTarget: String \n open var name: String \n open var type: String \n open var value: String \n open var
menu: HTMLMenuElement? \n open val willValidate: Boolean \n open val validity: ValidityState \n open val
validationMessage: String \n open val labels: NodeList \n fun checkValidity(): Boolean \n fun reportValidity():
Boolean \n fun setCustomValidity(error: String) \n \n companion object { \n val ELEMENT_NODE: Short \n
val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val CDATA_SECTION_NODE: Short \n
val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE: Short \n val
PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val
DOCUMENT_POSITION_DISCONNECTED: Short \n val DOCUMENT_POSITION_PRECEDING: Short \n
val DOCUMENT_POSITION_FOLLOWING: Short \n val DOCUMENT_POSITION_CONTAINS: Short \n
val DOCUMENT_POSITION_CONTAINED_BY: Short \n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin \n
*\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> { \n open var
autocomplete: String \n open var autofocus: Boolean \n open var disabled: Boolean \n open val form:
HTMLFormElement? \n open var multiple: Boolean \n open var name: String \n open var required: Boolean \n
open var size: Int \n open val type: String \n open val options: HTMLOptionsCollection \n override var length:
Int \n open val selectedOptions: HTMLCollection \n open var selectedIndex: Int \n open var value: String \n
open val willValidate: Boolean \n open val validity: ValidityState \n open val validationMessage: String \n open
val labels: NodeList \n fun namedItem(name: String): HTMLOptionElement? \n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally) \n fun
remove(index: Int) \n fun checkValidity(): Boolean \n fun reportValidity(): Boolean \n fun
setCustomValidity(error: String) \n override fun item(index: Int): Element? \n \n companion object { \n val
ELEMENT_NODE: Short \n val ATTRIBUTE_NODE: Short \n val TEXT_NODE: Short \n val
CDATA_SECTION_NODE: Short \n val ENTITY_REFERENCE_NODE: Short \n val ENTITY_NODE:
Short \n val PROCESSING_INSTRUCTION_NODE: Short \n val COMMENT_NODE: Short \n val
DOCUMENT_NODE: Short \n val DOCUMENT_TYPE_NODE: Short \n val
DOCUMENT_FRAGMENT_NODE: Short \n val NOTATION_NODE: Short \n val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.set(index: Int,
option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript
[HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n
*/\npublic external abstract class HTMLDataListElement : HTMLInputElement {\n    open val options:
HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n
*/\npublic external abstract class HTMLOptGroupElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open var label:
String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n
*/\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n    open var disabled: Boolean\n    open val form:
HTMLFormElement?\n    open var label: String\n    open var defaultSelected: Boolean\n    open var selected:
Boolean\n    open var value: String\n    open var text: String\n    open val index: Int\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n
*/\npublic external abstract class HTMLTextAreaElement : HTMLInputElement {\n    open var autocomplete: String\n
open var autofocus: Boolean\n    open var cols: Int\n    open var dirName: String\n    open var disabled: Boolean\n

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DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n *\npublic external abstract class HTMLProgressElement : HTMLInputElement {\n open var value: Double\n open var max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n *\npublic external abstract class HTMLMeterElement : HTMLInputElement {\n open var value: Double\n open var min: Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n *\npublic external abstract class HTMLFieldSetElement : HTMLInputElement {\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements: HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n\n/**\n * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n *\npublic external abstract class HTMLLegendElement : HTMLInputElement {\n open val form: HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic external
abstract class ValidityState {\n    open val valueMissing: Boolean\n    open val typeMismatch: Boolean\n    open val
patternMismatch: Boolean\n    open val tooLong: Boolean\n    open val tooShort: Boolean\n    open val
rangeUnderflow: Boolean\n    open val rangeOverflow: Boolean\n    open val stepMismatch: Boolean\n    open val
badInput: Boolean\n    open val customError: Boolean\n    open val valid: Boolean\n}\n\n/**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n */\npublic external abstract class HTMLDetailsElement : HTMLElement {\n    open var open: Boolean\n}
companion object {\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\npublic external abstract class
HTMLMenuElement : HTMLElement {\n    open var type: String\n    open var label: String\n    open var compact:
Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n
        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }n}\n\npublic external abstract class
HTMLMenuItemElement : HTMLElement {\n    open var type: String\n    open var label: String\n    open var icon:
String\n    open var disabled: Boolean\n    open var checked: Boolean\n    open var radiogroup: String\n    open var
default: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n        }n}\n\npublic external open class
RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n    open val
relatedTarget: EventTarget?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE:
Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }n}\n\npublic external interface
RelatedEventInit : EventInit {\n    var relatedTarget: EventTarget? /* = null */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget:

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EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
RelatedEventInit {
    val o = js("{}")
    o["relatedTarget"] = relatedTarget
    o["bubbles"] = bubbles
    o["cancelable"] = cancelable
    o["composed"] = composed
    return o
}

/** Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin */
public external abstract class 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)

    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 [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin */
public external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {
    open var src: String
    open var type: String
    open var charset: String
    open var async: Boolean
    open var defer: Boolean
    open var crossOrigin: String?
    open var text: String
    open var nonce: String
    open var event: String
    open var htmlFor: 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 [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin */
public external abstract class HTMLTemplateElement : HTMLElement {
    open val content: DocumentFragment

    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 [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin */
public external abstract class HTMLSlotElement : HTMLElement {
    open var name: String
    fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<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
    }
}

```

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Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten: Boolean? =
false): AssignedNodesOptions {\n    val o = js("{}")\n    o["flatten"] = flatten\n    return o\n}\n\n/**\n * Exposes
the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to
Kotlin\n */\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource,
TexImageSource {\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg
arguments: Any?): RenderingContext?\n    fun toDataURL(type: String = definedExternally, quality: Any? =
definedExternally): String\n    fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality:
Any? = definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n    get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n    val o =
js("{}")\n    o["alpha"] = alpha\n    return o\n}\n\n/**\n * Exposes the JavaScript
[CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to
Kotlin\n */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform,
CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n
open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n    fun save()\n    fun
restore()\n}\n\npublic external interface CanvasTransform {\n    fun scale(x: Double, y: Double)\n    fun
rotate(angle: Double)\n    fun translate(x: Double, y: Double)\n    fun transform(a: Double, b: Double, c: Double, d:
Double, e: Double, f: Double)\n    fun getTransform(): DOMMatrix\n    fun setTransform(a: Double, b: Double, c:
Double, d: Double, e: Double, f: Double)\n    fun setTransform(transform: dynamic = definedExternally)\n    fun
resetTransform()\n}\n\npublic external interface CanvasCompositing {\n    var globalAlpha: Double\n    var
globalCompositeOperation: String\n}\n\npublic external interface CanvasImageSmoothing {\n    var
imageSmoothingEnabled: Boolean\n    var imageSmoothingQuality: ImageSmoothingQuality\n}\n\npublic external
interface CanvasFillStrokeStyles {\n    var strokeStyle: dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n    var fillStyle: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n
fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n    fun
createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n
fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic external interface
CanvasShadowStyles {\n    var shadowOffsetX: Double\n    var shadowOffsetY: Double\n    var shadowBlur:

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Double\n  var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n  var filter:
String\n}\n\npublic external interface CanvasRect {\n  fun clearRect(x: Double, y: Double, w: Double, h:
Double)\n  fun fillRect(x: Double, y: Double, w: Double, h: Double)\n  fun strokeRect(x: Double, y: Double, w:
Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n  fun beginPath()\n  fun fill(fillRule:
CanvasFillRule = definedExternally)\n  fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n
fun stroke()\n  fun stroke(path: Path2D)\n  fun clip(fillRule: CanvasFillRule = definedExternally)\n  fun
clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n  fun resetClip()\n  fun isPointInPath(x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n  fun isPointInPath(path: Path2D, x:
Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n  fun isPointInStroke(x: Double, y:
Double): Boolean\n  fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external
interface CanvasUserInterface {\n  fun drawFocusIfNeeded(element: Element)\n  fun drawFocusIfNeeded(path:
Path2D, element: Element)\n  fun scrollPathIntoView()\n  fun scrollPathIntoView(path: Path2D)\n}\n\npublic
external interface CanvasText {\n  fun fillText(text: String, x: Double, y: Double, maxWidth: Double =
definedExternally)\n  fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n
fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n  fun
drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n  fun drawImage(image: CanvasImageSource,
dx: Double, dy: Double, dw: Double, dh: Double)\n  fun drawImage(image: CanvasImageSource, sx: Double, sy:
Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface
CanvasHitRegion {\n  fun addHitRegion(options: HitRegionOptions = definedExternally)\n  fun
removeHitRegion(id: String)\n  fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n  fun
createImageData(sw: Double, sh: Double): ImageData\n  fun createImageData(imagedata: ImageData):
ImageData\n  fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n  fun
putImageData(imagedata: ImageData, dx: Double, dy: Double)\n  fun putImageData(imagedata: ImageData, dx:
Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic
external interface CanvasPathDrawingStyles {\n  var lineWidth: Double\n  var lineCap: CanvasLineCap\n  var
lineJoin: CanvasLineJoin\n  var miterLimit: Double\n  var lineDashOffset: Double\n  fun setLineDash(segments:
Array<Double>)\n  fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles
{\n  var font: String\n  var textAlign: CanvasTextAlign\n  var textBaseline: CanvasTextBaseline\n  var
direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n  fun closePath()\n  fun moveTo(x:
Double, y: Double)\n  fun lineTo(x: Double, y: Double)\n  fun quadraticCurveTo(cpx: Double, cpy: Double, x:
Double, y: Double)\n  fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y:
Double)\n  fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n  fun arcTo(x1: Double,
y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n  fun rect(x: Double, y:
Double, w: Double, h: Double)\n  fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle:
Double, anticlockwise: Boolean = definedExternally)\n  fun ellipse(x: Double, y: Double, radiusX: Double,
radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean =
definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\n\npublic external
abstract class CanvasGradient {\n  fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the
JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\n\npublic
external abstract class CanvasPattern {\n  fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n *
Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\n\npublic external abstract class TextMetrics {\n  open val width: Double\n  open val actualBoundingBoxLeft:
Double\n  open val actualBoundingBoxRight: Double\n  open val fontBoundingBoxAscent: Double\n  open val
fontBoundingBoxDescent: Double\n  open val actualBoundingBoxAscent: Double\n  open val
actualBoundingBoxDescent: Double\n  open val emHeightAscent: Double\n  open val emHeightDescent:
Double\n  open val hangingBaseline: Double\n  open val alphabeticBaseline: Double\n  open val
ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n  var path: Path2D? /* = null

```



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setDragImage(image: Element, x: Int, y: Int)\n fun getData(format: String): String\n fun setData(format: String,
data: String)\n fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\n\npublic
external abstract class DataTransferItemList {\n open val length: Int\n fun add(data: String, type: String):
DataTransferItem?\n fun add(data: File): DataTransferItem?\n fun remove(index: Int)\n fun
clear()\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DataTransferItemList.get(index: Int):
DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\n\npublic
external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun
getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin\n */\n\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val
dataTransfer: DataTransfer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit {\n val o = js("{}")\n o["dataTransfer"] = dataTransfer\n o["screenX"] = screenX\n
o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n
o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] =
ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n
o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin\n */\n\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val
document: Document\n open var name: String\n open val location: Location\n open val history: History\n
open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar:
BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n
open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n
open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val
frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n
open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n
open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val
pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):

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Window? \n fun alert() \n fun alert(message: String) \n fun confirm(message: String = definedExternally):
Boolean \n fun prompt(message: String = definedExternally, default: String = definedExternally): String? \n fun
print() \n fun requestAnimationFrame(callback: (Double) -> Unit): Int \n fun cancelAnimationFrame(handle:
Int) \n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally) \n
fun captureEvents() \n fun releaseEvents() \n fun matchMedia(query: String): MediaQueryList \n fun moveTo(x:
Int, y: Int) \n fun moveBy(x: Int, y: Int) \n fun resizeTo(x: Int, y: Int) \n fun resizeBy(x: Int, y: Int) \n fun
scroll(options: ScrollToOptions = definedExternally) \n fun scroll(x: Double, y: Double) \n fun scrollTo(options:
ScrollToOptions = definedExternally) \n fun scrollTo(x: Double, y: Double) \n fun scrollBy(options:
ScrollToOptions = definedExternally) \n fun scrollBy(x: Double, y: Double) \n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration} \n \n @kotlin.internal.InlineOnly \n public
inline operator fun Window.get(name: String): dynamic = asDynamic()[name] \n \n public external abstract class
BarProp { \n open val visible: Boolean \n} \n \n /** \n * Exposes the JavaScript
[History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin \n * \n public external abstract class
History { \n open val length: Int \n open var scrollRestoration: ScrollRestoration \n open val state: Any? \n fun
go(delta: Int = definedExternally) \n fun back() \n fun forward() \n fun pushState(data: Any?, title: String, url:
String? = definedExternally) \n fun replaceState(data: Any?, title: String, url: String? =
definedExternally) \n} \n \n /** \n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin \n * \n public external abstract class
Location { \n open var href: String \n open val origin: String \n open var protocol: String \n open var host:
String \n open var hostname: String \n open var port: String \n open var pathname: String \n open var search:
String \n open var hash: String \n open val ancestorOrigins: Array<out String> \n fun assign(url: String) \n fun
replace(url: String) \n fun reload() \n} \n \n /** \n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin \n * \n public external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event { \n open val
state: Any? \n \n companion object { \n val NONE: Short \n val CAPTURING_PHASE: Short \n val
AT_TARGET: Short \n val BUBBLING_PHASE: Short \n} \n} \n \n public external interface PopStateEventInit
: EventInit { \n var state: Any? /* = null */ \n get() = definedExternally \n set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit { \n val o
= js("{}") \n o["state"] = state \n o["bubbles"] = bubbles \n o["cancelable"] = cancelable \n
o["composed"] = composed \n return o \n} \n \n /** \n * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin \n * \n public
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event { \n open val oldURL: String \n open val newURL: String \n \n companion object { \n val NONE:
Short \n val CAPTURING_PHASE: Short \n val AT_TARGET: Short \n val BUBBLING_PHASE:
Short \n} \n} \n \n public external interface HashChangeEventInit : EventInit { \n var oldURL: String? /* = "" */ \n
get() = definedExternally \n set(value) = definedExternally \n var newURL: String? /* = "" */ \n get() =
definedExternally \n set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun
HashChangeEventInit(oldURL: String? = "", newURL: String? = "", bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): HashChangeEventInit { \n val o = js("{}") \n o["oldURL"] =
oldURL \n o["newURL"] = newURL \n o["bubbles"] = bubbles \n o["cancelable"] = cancelable \n
o["composed"] = composed \n return o \n} \n \n /** \n * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin \n * \n public
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event { \n open val persisted: Boolean \n \n companion object { \n val NONE: Short \n val
CAPTURING_PHASE: Short \n val AT_TARGET: Short \n val BUBBLING_PHASE: Short \n} \n} \n \n public external interface PageTransitionEventInit : EventInit { \n var persisted: Boolean? /* = false */ \n
get() = definedExternally \n set(value) = definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun

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PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\n val o = js(\("{ }\)")\n o["persisted"] = persisted\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript

[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n *^npublic external open class BeforeUnloadEvent : Event {\n var returnValue: String\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n open val status: Short\n open var onchecking: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onnoupdate: ((Event) -> dynamic)?\n open var ondownloading: ((Event) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onupdateready: ((Event) -> dynamic)?\n open var oncached: ((Event) -> dynamic)?\n open var onobsolete: ((Event) -> dynamic)?\n fun update()\n fun abort()\n fun swapCache()\n companion object {\n val UNCACHED: Short\n val IDLE: Short\n val CHECKING: Short\n val DOWNLOADING: Short\n val UPDATEREADY: Short\n val OBSOLETE: Short\n }\n}\n\n/**\n * Exposes the JavaScript

[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n *^npublic external interface NavigatorOnLine {\n val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript

[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n *^npublic external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n open val message: String\n open val filename: String\n open val lineno: Int\n open val colno: Int\n open val error: Any?\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ErrorEventInit : EventInit {\n var message: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var filename: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var lineno: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var colno: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var error: Any? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n val o = js(\("{ }\)")\n o["message"] = message\n o["filename"] = filename\n o["lineno"] = lineno\n o["colno"] = colno\n o["error"] = error\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript

[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n *^npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\n open val promise: Promise<Any?>\n open val reason: Any?\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PromiseRejectionEventInit : EventInit {\n var promise: Promise<Any?>\n get() = definedExternally\n set(value) = definedExternally\n var reason: Any?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\n val o = js(\("{ }\)")\n o["promise"] = promise\n o["reason"] = reason\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript

[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n *^npublic external interface GlobalEventHandlers {\n var onabort: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onblur: ((FocusEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncancel: ((Event) -> dynamic)?\n get() =

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definedExternally\n      set(value) = definedExternally\n      var oncanplay: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var oncanplaythrough: ((Event) -> dynamic)?\n      get()
= definedExternally\n      set(value) = definedExternally\n      var onchange: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onclick: ((MouseEvent) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onclose: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var oncontextmenu: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var oncuechange: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondblclick: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondrag: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragend: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragenter: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragexit: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragleave: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragover: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondragstart: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondrop: ((DragEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var ondurationchange: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onemptied: ((Event) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onended: ((Event) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onerror: ((dynamic, String, Int, Int, Any?) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onfocus: ((FocusEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var oninput: ((InputEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var oninvalid: ((Event) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onkeydown:
((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var
onkeypress: ((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n
var onkeyup: ((KeyboardEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onload: ((Event) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onloadeddata: ((Event) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onloadedmetadata: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onloadend: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onloadstart: ((ProgressEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onmousedown: ((MouseEvent) -> dynamic)?\n      get() =
definedExternally\n      set(value) = definedExternally\n      var onmouseenter: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n      set(value) = definedExternally\n      var onmouseleave: ((MouseEvent) ->
dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var onmousemove:
((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n      var
onmouseout: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) = definedExternally\n
var onmouseover: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n      set(value) =
definedExternally\n      var onmouseup: ((MouseEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onwheel: ((WheelEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onpause: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onplay: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onplaying: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onprogress: ((ProgressEvent) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onratechange: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onreset: ((Event) -> dynamic)?\n      get() = definedExternally\n
set(value) = definedExternally\n      var onresize: ((Event) -> dynamic)?\n      get() = definedExternally\n

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set(value) = definedExternally\n    var onscroll: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeked: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onseeking: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onselect: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onshow: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onstalled: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsubmit: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onsuspend: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontimeupdate: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ontoggle: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onvolumechange: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onwaiting: ((Event) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var ongotpointercapture: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onlostpointercapture: ((PointerEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onpointerdown: ((PointerEvent) ->
dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onpointermove:
((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpointerup: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onpointercancel: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n    get() = definedExternally\n
    set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\n\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var onhashchange:
((HashChangeEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onlanguagechange: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onoffline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var ononline: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n    get() = definedExternally\n
set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n
get() = definedExternally\n    set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var oncut:
((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) = definedExternally\n    var
onpaste: ((ClipboardEvent) -> dynamic)?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)

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to Kotlin\n */\npublic external interface WindowOrWorkerGlobalScope {\n val origin: String\n val caches: CacheStorage\n fun btoa(data: String): String\n fun atob(data: String): String\n fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearTimeout(handle: Int = definedExternally)\n fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n fun clearInterval(handle: Int = definedExternally)\n fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n/**\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n open val clipboard: Clipboard\n open val mediaDevices: MediaDevices\n open val maxTouchPoints: Int\n open val serviceWorker: ServiceWorkerContainer\n fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\npublic external interface NavigatorID {\n val appCodeName: String\n val appName: String\n val appVersion: String\n val platform: String\n val product: String\n val productSub: String\n val userAgent: String\n val vendor: String\n val vendorSub: String\n val oscpu: String\n fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */\npublic external interface NavigatorLanguage {\n val language: String\n val languages: Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title: String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType: String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\npublic external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeArray\n fun javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun item(index: Int): Plugin?\n fun namedItem(name: String): Plugin?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n fun namedItem(name: String): MimeType?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\npublic external abstract class Plugin : ItemArrayLike<MimeType> {\n open val name: String\n open val description: String\n open val filename: String\n override fun item(index: Int): MimeType?\n fun namedItem(name: String): MimeType?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\npublic external abstract


```

class MimeType {\n  open val type: String\n  open val description: String\n  open val suffixes: String\n  open
val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\npublic external
abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n  open val width: Int\n  open val height:
Int\n  fun close()\n}\n\npublic external interface ImageBitmapOptions {\n  var imageOrientation:
ImageOrientation? /* = ImageOrientation.NONE */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var colorSpaceConversion: ColorSpaceConversion? /* =
ColorSpaceConversion.DEFAULT */\n  get() = definedExternally\n  set(value) = definedExternally\n  var
resizeWidth: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var resizeHeight: Int?\n
  get() = definedExternally\n  set(value) = definedExternally\n  var resizeQuality: ResizeQuality? /* =
ResizeQuality.LOW */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapOptions(imageOrientation:
ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? =
PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n  val o = js("{}")\n  o["imageOrientation"]
= imageOrientation\n  o["premultiplyAlpha"] = premultiplyAlpha\n  o["colorSpaceConversion"] =
colorSpaceConversion\n  o["resizeWidth"] = resizeWidth\n  o["resizeHeight"] = resizeHeight\n
o["resizeQuality"] = resizeQuality\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n  open val data:
Any?\n  open val origin: String\n  open val lastEventId: String\n  open val source:
UnionMessagePortOrWindowProxy?\n  open val ports: Array<out MessagePort>\n  fun initMessageEvent(type:
String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source:
UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface MessageEventInit : EventInit {\n  var data: Any? /* = null */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var origin: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var lastEventId: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var source: UnionMessagePortOrWindowProxy? /* =
null */\n  get() = definedExternally\n  set(value) = definedExternally\n  var ports: Array<MessagePort>? /*
= arrayOf() */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MessageEventInit(data: Any? = null, origin:
String? = "", lastEventId: String? = "", source: UnionMessagePortOrWindowProxy? = null, ports:
Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MessageEventInit {\n  val o = js("{}")\n  o["data"] = data\n  o["origin"] = origin\n
o["lastEventId"] = lastEventId\n  o["source"] = source\n  o["ports"] = ports\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\npublic external open
class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n  open
val url: String\n  open val withCredentials: Boolean\n  open val readyState: Short\n  var onopen: ((Event) ->
dynamic)?\n  var onmessage: ((MessageEvent) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  fun
close()\n\n  companion object {\n    val CONNECTING: Short\n    val OPEN: Short\n    val CLOSED:
Short\n  }\n}\n\npublic external interface EventSourceInit {\n  var withCredentials: Boolean? /* = false */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n  val o = js("{}")\n
o["withCredentials"] = withCredentials\n  return o\n}\n\n/**\n * Exposes the JavaScript

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[WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n * public external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var onopen: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onclose: ((Event) -> dynamic)?\n open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data: ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n * public external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean: Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var code: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var reason: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n val o = js("{}")\n o["wasClean"] = wasClean\n o["code"] = code\n o["reason"] = reason\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n * public external open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n * public external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n * public external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n * public external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline: ((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n * public external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n * public external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name: String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun close()\n}\n\n/**\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n * public external interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value)

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= definedExternally\n}\n\n**\n * Exposes the JavaScript
[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n *\npublic external open class
Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n  var
onmessage: ((MessageEvent) -> dynamic)?\n  override var onerror: ((Event) -> dynamic)?\n  fun terminate()\n
fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface
WorkerOptions {\n  var type: WorkerType? /* = WorkerType.CLASSIC */\n  get() = definedExternally\n
set(value) = definedExternally\n  var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? =
RequestCredentials.OMIT): WorkerOptions {\n  val o = js("{}")\n  o["type"] = type\n  o["credentials"] =
credentials\n  return o\n}\n\n**\n * Exposes the JavaScript
[SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n *\npublic external open
class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions =
definedExternally) : EventTarget, AbstractWorker {\n  open val port: MessagePort\n  override var onerror:
((Event) -> dynamic)?\n}\n\n**\n * Exposes the JavaScript
[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to
Kotlin\n *\npublic external interface NavigatorConcurrentHardware {\n  val hardwareConcurrency:
Number\n}\n\n**\n * Exposes the JavaScript
[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n *\npublic
external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine,
NavigatorConcurrentHardware {\n  open val serviceWorker: ServiceWorkerContainer\n}\n\n**\n * Exposes the
JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n
*\npublic external abstract class WorkerLocation {\n  open val href: String\n  open val origin: String\n  open val
protocol: String\n  open val host: String\n  open val hostname: String\n  open val port: String\n  open val
pathname: String\n  open val search: String\n  open val hash: String\n}\n\n**\n * Exposes the JavaScript
[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n *\npublic external abstract class
Storage {\n  open val length: Int\n  fun key(index: Int): String?\n  fun removeItem(key: String)\n  fun clear()\n
fun getItem(key: String): String?\n  fun setItem(key: String, value:
String)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? =
asDynamic()[key]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String)
{ asDynamic()[key] = value }\n\n**\n * Exposes the JavaScript
[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n
*\npublic external interface WindowSessionStorage {\n  val sessionStorage: Storage\n}\n\n**\n * Exposes the
JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to
Kotlin\n *\npublic external interface WindowLocalStorage {\n  val localStorage: Storage\n}\n\n**\n * Exposes
the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n
*\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n
open val key: String?\n  open val oldValue: String?\n  open val newValue: String?\n  open val url: String\n
open val storageArea: Storage?\n\n  companion object {\n    val NONE: Short\n    val CAPTURING_PHASE:
Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n  }\n}\n\npublic external interface
StorageEventInit : EventInit {\n  var key: String? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var oldValue: String? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var newValue: String? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var url: String? /* = "" */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var storageArea: Storage? /* = null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null,
oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n  val o =

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js("{}")\n o["key"] = key\n o["oldValue"] = oldValue\n o["newValue"] = newValue\n o["url"] =
url\n o["storageArea"] = storageArea\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\npublic external abstract class HTMLAppletElement :
HTMLElement {\n open var align: String\n open var alt: String\n open var archive: String\n open var code:
String\n open var codeBase: String\n open var height: String\n open var hspace: Int\n open var name:
String\n open var _object: String\n open var vspace: Int\n open var width: String\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n
*\n\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n open var behavior: String\n open
var bgColor: String\n open var direction: String\n open var height: String\n open var hspace: Int\n open var
loop: Int\n open var scrollAmount: Int\n open var scrollDelay: Int\n open var trueSpeed: Boolean\n open var
vspace: Int\n open var width: String\n open var onbounce: ((Event) -> dynamic)?\n open var onfinish: ((Event)
-> dynamic)?\n open var onstart: ((Event) -> dynamic)?\n fun start()\n fun stop()\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*\n\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n open var
cols: String\n open var rows: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
HTMLFrameElement : HTMLElement {\n open var name: String\n open var scrolling: String\n open var src:
String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open
var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

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PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
HTMLDirectoryElement : HTMLElement {\n    open var compact: Boolean\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n */\n\npublic
external abstract class HTMLFontElement : HTMLElement {\n    open var color: String\n    open var face: String\n
open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface External
{\n    fun AddSearchProvider()\n    fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n
var bubbles: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
cancelable: Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var
composed: Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n    val o = js("{}")\n    o["bubbles"] =
bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\n\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n
open val detail: Any?\n    fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail:
Any?)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val
AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CustomEventInit :
EventInit {\n    var detail: Any? /* = null */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n    val o
= js("{}")\n    o["detail"] = detail\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n
o["composed"] = composed\n    return o\n}\n\npublic external interface EventListenerOptions {\n    var capture:
Boolean? /* = false */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventListenerOptions(capture: Boolean? =

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false): EventListenerOptions {\n  val o = js("{}")\n  o["capture"] = capture\n  return o\n}\n\npublic external
interface AddEventListenerOptions : EventListenerOptions {\n  var passive: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var once: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false):
AddEventListenerOptions {\n  val o = js("{}")\n  o["passive"] = passive\n  o["once"] = once\n
o["capture"] = capture\n  return o\n}\n\npublic external interface NonElementParentNode {\n  fun
getElementById(elementId: String): Element?\n}\n\n/**\n * Exposes the JavaScript
[DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n
*/\n\npublic external interface DocumentOrShadowRoot {\n  val fullscreenElement: Element?\n  get() =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\n\npublic external interface
ParentNode {\n  val children: HTMLCollection\n  val firstElementChild: Element?\n  get() =
definedExternally\n  val lastElementChild: Element?\n  get() = definedExternally\n  val childElementCount:
Int\n  fun prepend(vararg nodes: dynamic)\n  fun append(vararg nodes: dynamic)\n  fun querySelector(selectors:
String): Element?\n  fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript
[NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to
Kotlin\n */\n\npublic external interface NonDocumentTypeChildNode {\n  val previousElementSibling: Element?\n
get() = definedExternally\n  val nextElementSibling: Element?\n  get() = definedExternally\n}\n\n/**\n *
Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n
*/\n\npublic external interface ChildNode {\n  fun before(vararg nodes: dynamic)\n  fun after(vararg nodes:
dynamic)\n  fun replaceWith(vararg nodes: dynamic)\n  fun remove()\n}\n\n/**\n * Exposes the JavaScript
[Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\n\npublic external interface Slotable
{\n  val assignedSlot: HTMLSlotElement?\n  get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[Nodelist](https://developer.mozilla.org/en/docs/Web/API/Nodelist) to Kotlin\n */\n\npublic external abstract class
NodeList : ItemArrayLike<Node> {\n  override fun item(index: Int):
Node?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int): Node? =
asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\n\npublic
external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n
override fun item(index: Int): Element?\n  fun namedItem(name: String):
Element?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index: Int): Element?
= asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */\n\npublic
external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n  fun
observe(target: Node, options: MutationObserverInit = definedExternally)\n  fun disconnect()\n  fun
takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript
[MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n
*/\n\npublic external interface MutationObserverInit {\n  var childList: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var attributes: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var characterData: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var subtree: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var attributeOldValue: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var characterDataOldValue: Boolean?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var attributeFilter: Array<String>?\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? =

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undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? =
undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n  val o = js("{}")\n
o["childList"] = childList\n  o["attributes"] = attributes\n  o["characterData"] = characterData\n
o["subtree"] = subtree\n  o["attributeOldValue"] = attributeOldValue\n  o["characterDataOldValue"] =
characterDataOldValue\n  o["attributeFilter"] = attributeFilter\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n */\npublic external
abstract class MutationRecord {\n  open val type: String\n  open val target: Node\n  open val addedNodes:
NodeList\n  open val removedNodes: NodeList\n  open val previousSibling: Node?\n  open val nextSibling:
Node?\n  open val attributeName: String?\n  open val attributeNamespace: String?\n  open val oldValue:
String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin\n */\npublic external abstract class Node : EventTarget {\n  open val nodeType: Short\n  open val
nodeName: String\n  open val baseURI: String\n  open val isConnected: Boolean\n  open val ownerDocument:
Document?\n  open val parentNode: Node?\n  open val parentElement: Element?\n  open val childNodes:
NodeList\n  open val firstChild: Node?\n  open val lastChild: Node?\n  open val previousSibling: Node?\n
open val nextSibling: Node?\n  open var nodeValue: String?\n  open var textContent: String?\n  fun
getRootNode(options: GetRootNodeOptions = definedExternally): Node\n  fun hasChildNodes(): Boolean\n  fun
normalize()\n  fun cloneNode(deep: Boolean = definedExternally): Node\n  fun isEqualNode(otherNode: Node?):
Boolean\n  fun isSameNode(otherNode: Node?): Boolean\n  fun compareDocumentPosition(other: Node): Short\n
  fun contains(other: Node?): Boolean\n  fun lookupPrefix(namespace: String?): String?\n  fun
lookupNamespaceURI(prefix: String?): String?\n  fun isDefaultNamespace(namespace: String?): Boolean\n  fun
insertBefore(node: Node, child: Node?): Node\n  fun appendChild(node: Node): Node\n  fun replaceChild(node:
Node, child: Node): Node\n  fun removeChild(child: Node): Node\n\n  companion object {\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external interface
GetRootNodeOptions {\n  var composed: Boolean? /* = false */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean?
= false): GetRootNodeOptions {\n  val o = js("{}")\n  o["composed"] = composed\n  return o\n}\n\n/**\n *
Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\n
public external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers,
NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n  open val implementation:
DOMImplementation\n  open val URL: String\n  open val documentURI: String\n  open val origin: String\n
open val compatMode: String\n  open val characterSet: String\n  open val charset: String\n  open val
inputEncoding: String\n  open val contentType: String\n  open val doctype: DocumentType?\n  open val
documentElement: Element?\n  open val location: Location?\n  var domain: String\n  open val referrer: String\n
var cookie: String\n  open val lastModified: String\n  open val readyState: DocumentReadyState\n  var title:
String\n  var dir: String\n  var body: HTMLElement?\n  open val head: HTMLHeadElement?\n  open val
images: HTMLCollection\n  open val embeds: HTMLCollection\n  open val plugins: HTMLCollection\n  open
val links: HTMLCollection\n  open val forms: HTMLCollection\n  open val scripts: HTMLCollection\n  open
val currentScript: HTMLScriptElement?\n  open val defaultView: Window?\n  open val activeElement:
Element?\n  var designMode: String\n  var onreadystatechange: ((Event) -> dynamic)?\n  var fgColor: String\n
var linkColor: String\n  var vlinkColor: String\n  var alinkColor: String\n  var bgColor: String\n  open val

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anchors: HTMLCollection\n  open val applets: HTMLCollection\n  open val all: HTMLAllCollection\n  open
val scrollingElement: Element?\n  open val styleSheets: StyleSheetList\n  open val rootElement:
SVGSVGElement?\n  open val fullscreenEnabled: Boolean\n  open val fullscreen: Boolean\n  var
onfullscreenchange: ((Event) -> dynamic)?\n  var onfullscreenerror: ((Event) -> dynamic)?\n  override var
onabort: ((Event) -> dynamic)?\n  override var onblur: ((FocusEvent) -> dynamic)?\n  override var oncancel:
((Event) -> dynamic)?\n  override var oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough:
((Event) -> dynamic)?\n  override var onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) ->
dynamic)?\n  override var onclose: ((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n  override var oncuechange: ((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) ->
dynamic)?\n  override var ondrag: ((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) ->
dynamic)?\n  override var ondragenter: ((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) ->
dynamic)?\n  override var ondragleave: ((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) ->
dynamic)?\n  override var ondragstart: ((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) ->
dynamic)?\n  override var ondurationchange: ((Event) -> dynamic)?\n  override var onemptied: ((Event) ->
dynamic)?\n  override var onended: ((Event) -> dynamic)?\n  override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n  override var onfocus: ((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -
> dynamic)?\n  override var oninvalid: ((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown:
((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var
onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var
onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked:
((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) ->
dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override val fullscreenElement: Element?\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  fun getElementsByTagName(qualifiedName: String): HTMLCollection\n
fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n  fun
getElementsByClassName(classNames: String): HTMLCollection\n  fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n  fun createElementNS(namespace: String?,
qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n  fun

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createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun
createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun
createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun
getElementsByName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace:
String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun
close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun
execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally):
Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun
queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String):
Boolean\n fun queryCommandSupported(commandId: String): Boolean\n fun
queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n
fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double):
Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun createTouch(view:
Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n fun
createTouchList(vararg touches: Touch): TouchList\n fun exitFullscreen(): Promise<Unit>\n override fun
getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun
append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* =
definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String): dynamic =
asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\n\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\npublic external interface
ElementCreationOptions {\n    var `is`: String?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String? =
undefined): ElementCreationOptions {\n    val o = js(\`"({})"\`)\n    o["is"] = `is`\n    return o\n}\n\n/**\n * Exposes
the JavaScript [DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to
Kotlin\n */\npublic external abstract class DOMImplementation {\n    fun createDocumentType(qualifiedName:
String, publicId: String, systemId: String): DocumentType\n    fun createDocument(namespace: String?,
qualifiedName: String, doctype: DocumentType? = definedExternally): XMLDocument\n    fun
createHTMLDocument(title: String = definedExternally): Document\n    fun hasFeature(): Boolean\n}\n\n/**\n *
Exposes the JavaScript [DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to
Kotlin\n */\npublic external abstract class DocumentType : Node, ChildNode {\n    open val name: String\n    open
val publicId: String\n    open val systemId: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n */\npublic
external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n    override val children:
HTMLCollection\n    override val firstElementChild: Element?\n    override val lastElementChild: Element?\n
    override val childElementCount: Int\n    override fun getElementById(elementId: String): Element?\n    override fun
prepend(vararg nodes: dynamic)\n    override fun append(vararg nodes: dynamic)\n    override fun
querySelector(selectors: String): Element?\n    override fun querySelectorAll(selectors: String): NodeList\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n    open val mode: ShadowRootMode\n    open val host:
Element\n    override val fullscreenElement: Element?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin \n * \n public external abstract class
Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction { \n    open val namespaceURI: String? \n    open val prefix: String? \n    open
val localName: String \n    open val tagName: String \n    open var id: String \n    open var className: String \n    open
val classList: DOMTokenList \n    open var slot: String \n    open val attributes: NamedNodeMap \n    open val
shadowRoot: ShadowRoot? \n    open var scrollTop: Double \n    open var scrollLeft: Double \n    open val
scrollWidth: Int \n    open val scrollHeight: Int \n    open val clientTop: Int \n    open val clientLeft: Int \n    open val
clientWidth: Int \n    open val clientHeight: Int \n    open var innerHTML: String \n    open var outerHTML: String \n
fun hasAttributes(): Boolean \n    fun getAttributeNames(): Array<String> \n    fun getAttribute(qualifiedName:
String): String? \n    fun getAttributeNS(namespace: String?, localName: String): String? \n    fun
setAttribute(qualifiedName: String, value: String) \n    fun setAttributeNS(namespace: String?, qualifiedName:
String, value: String) \n    fun removeAttribute(qualifiedName: String) \n    fun removeAttributeNS(namespace:
String?, localName: String) \n    fun hasAttribute(qualifiedName: String): Boolean \n    fun
hasAttributeNS(namespace: String?, localName: String): Boolean \n    fun getAttributeNode(qualifiedName: String):
Attr? \n    fun getAttributeNodeNS(namespace: String?, localName: String): Attr? \n    fun setAttributeNode(attr:
Attr): Attr? \n    fun setAttributeNodeNS(attr: Attr): Attr? \n    fun removeAttributeNode(attr: Attr): Attr \n    fun
attachShadow(init: ShadowRootInit): ShadowRoot \n    fun closest(selectors: String): Element? \n    fun
matches(selectors: String): Boolean \n    fun webkitMatchesSelector(selectors: String): Boolean \n    fun
getElementsByTagName(qualifiedName: String): HTMLCollection \n    fun
getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection \n    fun
getElementsByClassName(classNames: String): HTMLCollection \n    fun insertAdjacentElement(where: String,
element: Element): Element? \n    fun insertAdjacentText(where: String, data: String) \n    fun getClientRects():
Array<DOMRect> \n    fun getBoundingClientRect(): DOMRect \n    fun scrollIntoView() \n    fun
scrollIntoView(arg: dynamic) \n    fun scroll(options: ScrollToOptions = definedExternally) \n    fun scroll(x: Double,
y: Double) \n    fun scrollTo(options: ScrollToOptions = definedExternally) \n    fun scrollTo(x: Double, y: Double) \n
    fun scrollBy(options: ScrollToOptions = definedExternally) \n    fun scrollBy(x: Double, y: Double) \n    fun
insertAdjacentHTML(position: String, text: String) \n    fun setPointerCapture(pointerId: Int) \n    fun
releasePointerCapture(pointerId: Int) \n    fun hasPointerCapture(pointerId: Int): Boolean \n    fun requestFullscreen():
Promise<Unit> \n \n    companion object { \n        val ELEMENT_NODE: Short \n        val ATTRIBUTE_NODE:
Short \n        val TEXT_NODE: Short \n        val CDATA_SECTION_NODE: Short \n        val
ENTITY_REFERENCE_NODE: Short \n        val ENTITY_NODE: Short \n        val
PROCESSING_INSTRUCTION_NODE: Short \n        val COMMENT_NODE: Short \n        val
DOCUMENT_NODE: Short \n        val DOCUMENT_TYPE_NODE: Short \n        val
DOCUMENT_FRAGMENT_NODE: Short \n        val NOTATION_NODE: Short \n        val
DOCUMENT_POSITION_DISCONNECTED: Short \n        val DOCUMENT_POSITION_PRECEDING: Short \n
        val DOCUMENT_POSITION_FOLLOWING: Short \n        val DOCUMENT_POSITION_CONTAINS: Short \n
        val DOCUMENT_POSITION_CONTAINED_BY: Short \n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short \n    } \n} \n \n public external interface
ShadowRootInit { \n    var mode: ShadowRootMode? \n    get() = definedExternally \n    set(value) =
definedExternally \n} \n \n @kotlin.internal.InlineOnly \n public inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit { \n    val o = js("{}") \n    o["mode"] = mode \n    return o \n} \n \n /** \n *
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin \n * \n public external abstract class NamedNodeMap : ItemArrayLike<Attr> { \n    fun

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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?
}
@kotlin.internal.InlineOnly
public inline operator fun
NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]
@kotlin.internal.InlineOnly
public inline operator
fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]
/** 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
    }
}
/** 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
val 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)
    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
[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 NOTATION_NODE: Short
        val
}

```

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin \n * \n public external open class CDATASection : Text { \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin \n * \n public external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction { \n open val target: String \n \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin \n * \n public external open class Comment(data: String = definedExternally) : CharacterData { \n override val previousElementSibling: Element? \n override val nextElementSibling: Element? \n override fun before(vararg nodes: dynamic) \n override fun after(vararg nodes: dynamic) \n override fun replaceWith(vararg nodes: dynamic) \n override fun remove() \n \n companion object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin \n * \n public external open class Range { \n open val startContainer: Node \n open val startOffset: Int \n open val endContainer: Node \n open val endOffset: Int \n open val collapsed: Boolean \n open val commonAncestorContainer: Node \n fun setStart(node: Node, offset: Int) \n fun setEnd(node: Node, offset: Int) \n fun setStartBefore(node: Node) \n fun setStartAfter(node: Node) \n fun setEndBefore(node: Node) \n fun setEndAfter(node: Node) \n fun collapse(toStart: Boolean = definedExternally) \n fun selectNode(node: Node) \n fun selectNodeContents(node: Node) \n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short \n fun deleteContents() \n fun extractContents(): DocumentFragment \n fun cloneContents(): DocumentFragment \n fun insertNode(node:

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Node)\n fun surroundContents(newParent: Node)\n fun cloneRange(): Range\n fun detach()\n fun
isPointInRange(node: Node, offset: Int): Boolean\n fun comparePoint(node: Node, offset: Int): Short\n fun
intersectsNode(node: Node): Boolean\n fun getClientRects(): Array<DOMRect>\n fun
getBoundingClientRect(): DOMRect\n fun createContextualFragment(fragment: String): DocumentFragment\n\n
companion object {\n val START_TO_START: Short\n val START_TO_END: Short\n val
END_TO_END: Short\n val END_TO_START: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n *\n\npublic external abstract
class NodeIterator {\n open val root: Node\n open val referenceNode: Node\n open val
pointerBeforeReferenceNode: Boolean\n open val whatToShow: Int\n open val filter: NodeFilter?\n fun
nextNode(): Node?\n fun previousNode(): Node?\n fun detach()\n }\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n *\n\npublic external abstract
class TreeWalker {\n open val root: Node\n open val whatToShow: Int\n open val filter: NodeFilter?\n open
var currentNode: Node\n fun parentNode(): Node?\n fun firstChild(): Node?\n fun lastChild(): Node?\n fun
previousSibling(): Node?\n fun nextSibling(): Node?\n fun previousNode(): Node?\n fun nextNode():
Node?\n }\n}\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface NodeFilter {\n
fun acceptNode(node: Node): Short\n\n companion object {\n val FILTER_ACCEPT: Short\n val
FILTER_REJECT: Short\n val FILTER_SKIP: Short\n val SHOW_ALL: Int\n val
SHOW_ELEMENT: Int\n val SHOW_ATTRIBUTE: Int\n val SHOW_TEXT: Int\n val
SHOW_CDATA_SECTION: Int\n val SHOW_ENTITY_REFERENCE: Int\n val SHOW_ENTITY: Int\n
val SHOW_PROCESSING_INSTRUCTION: Int\n val SHOW_COMMENT: Int\n val
SHOW_DOCUMENT: Int\n val SHOW_DOCUMENT_TYPE: Int\n val
SHOW_DOCUMENT_FRAGMENT: Int\n val SHOW_NOTATION: Int\n }\n}\n\n/**\n * Exposes the
JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n *\n\npublic
external abstract class DOMTokenList : ItemArrayLike<String> {\n open var value: String\n fun contains(token:
String): Boolean\n fun add(vararg tokens: String)\n fun remove(vararg tokens: String)\n fun toggle(token:
String, force: Boolean = definedExternally): Boolean\n fun replace(token: String, newToken: String)\n fun
supports(token: String): Boolean\n override fun item(index: Int):
String?\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMTokenList.get(index: Int): String? =
asDynamic()[index]\n}\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n *\n\npublic
external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n open val x: Double\n
open val y: Double\n open val z: Double\n open val w: Double\n fun matrixTransform(matrix:
DOMMatrixReadOnly): DOMPoint\n }\n}\n\n/**\n * Exposes the JavaScript
[DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n *\n\npublic external open class
DOMPoint : DOMPointReadOnly {\n constructor(point: DOMPointInit)\n constructor(x: Double =
definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n
override var x: Double\n override var y: Double\n override var z: Double\n override var w:
Double\n }\n}\n\n/**\n * Exposes the JavaScript
[DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n *\n\npublic external
interface DOMPointInit {\n var x: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var y: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var z: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var w: Double? /* = 1.0 */\n get() = definedExternally\n set(value) =
definedExternally\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double?
= 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n val o = js("{}")\n o["x"] = x\n o["y"] = y\n
o["z"] = z\n o["w"] = w\n return o\n }\n}\n\n/**\n * Exposes the JavaScript

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[DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n */\npublic external open class
DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally,
height: Double = definedExternally) : DOMRectReadOnly {\n  override var x: Double\n  override var y: Double\n
  override var width: Double\n  override var height: Double\n}\n\n/**\n * Exposes the JavaScript
[DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic
external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n  open val x:
Double\n  open val y: Double\n  open val width: Double\n  open val height: Double\n  open val top: Double\n
open val right: Double\n  open val bottom: Double\n  open val left: Double\n}\n\npublic external interface
DOMRectInit {\n  var x: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var y: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var width: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n  var height: Double? /* = 0.0 */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double?
= 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n  val o = js("{}")\n  o["x"] = x\n
o["y"] = y\n  o["width"] = width\n  o["height"] = height\n  return o\n}\n\npublic external interface
DOMRectList : ItemArrayLike<DOMRect> {\n  override fun item(index: Int):
DOMRect?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int): DOMRect?
= asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class
DOMQuad {\n  constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3:
DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n  constructor(rect: DOMRectInit)\n
open val p1: DOMPoint\n  open val p2: DOMPoint\n  open val p3: DOMPoint\n  open val p4: DOMPoint\n
open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n
*/\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n  open val a: Double\n
open val b: Double\n  open val c: Double\n  open val d: Double\n  open val e: Double\n  open val f: Double\n
open val m11: Double\n  open val m12: Double\n  open val m13: Double\n  open val m14: Double\n  open val
m21: Double\n  open val m22: Double\n  open val m23: Double\n  open val m24: Double\n  open val m31:
Double\n  open val m32: Double\n  open val m33: Double\n  open val m34: Double\n  open val m41: Double\n
open val m42: Double\n  open val m43: Double\n  open val m44: Double\n  open val is2D: Boolean\n  open
val isIdentity: Boolean\n  fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n
fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ:
Double = definedExternally): DOMMatrix\n  fun scaleNonUniform(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n  fun rotate(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n  fun rotateFromVector(x:
Double, y: Double): DOMMatrix\n  fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n  fun skewX(sx: Double): DOMMatrix\n  fun skewY(sy: Double): DOMMatrix\n  fun
multiply(other: DOMMatrix): DOMMatrix\n  fun flipX(): DOMMatrix\n  fun flipY(): DOMMatrix\n  fun
inverse(): DOMMatrix\n  fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n  fun
toFloat32Array(): Float32Array\n  fun toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript
[DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open
class DOMMatrix() : DOMMatrixReadOnly {\n  constructor(transformList: String)\n  constructor(other:
DOMMatrixReadOnly)\n  constructor(array32: Float32Array)\n  constructor(array64: Float64Array)\n
constructor(numberSequence: Array<Double>)\n  override var a: Double\n  override var b: Double\n  override
var c: Double\n  override var d: Double\n  override var e: Double\n  override var f: Double\n  override var m11:
Double\n  override var m12: Double\n  override var m13: Double\n  override var m14: Double\n  override var

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m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override
var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n
override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44:
Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix):
DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun
scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n
fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double =
definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double =
definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX:
Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x:
Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double):
DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun
invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n\n\npublic external
interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js("{}")\n
o["behavior"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript
[ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n */\npublic external
interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var top: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined,
top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o =
js("{}")\n o["left"] = left\n o["top"] = top\n o["behavior"] = behavior\n return o\n}\n\n/**\n *
Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to
Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val
matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n
fun addListener(listener: ((Event) -> Unit)?)\n fun removeListener(listener: EventListener?)\n fun
removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n */\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n open val media: String\n open val matches: Boolean\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n var
media: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var matches:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? =
"", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): MediaQueryListEventInit {\n val o = js("{}")\n o["media"] = media\n o["matches"] = matches\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class Screen {\n open val availWidth: Int\n open val availHeight: Int\n open val
width: Int\n open val height: Int\n open val colorDepth: Int\n open val pixelDepth: Int\n}\n\n/**\n * Exposes
the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external abstract class CaretPosition {\n open val offsetNode: Node\n open val offset: Int\n fun
getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n var block:
ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() = definedExternally\n set(value) =
definedExternally\n var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n get() =

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definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO):
ScrollIntoViewOptions {\n    val o = js("{}")\n    o["block"] = block\n    o["inline"] = inline\n    o["behavior"]
= behavior\n    return o\n}\n\npublic external interface BoxQuadOptions {\n    var box: CSSBoxType? /* =
CSSBoxType.BORDER */\n    get() = definedExternally\n    set(value) = definedExternally\n    var relativeTo:
dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? =
CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n    val o = js("{}")\n    o["box"] = box\n    o["relativeTo"] = relativeTo\n    return o\n}\n\npublic external interface
ConvertCoordinateOptions {\n    var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n    get() =
definedExternally\n    set(value) = definedExternally\n    var toBox: CSSBoxType? /* = CSSBoxType.BORDER
*/\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? =
CSSBoxType.BORDER): ConvertCoordinateOptions {\n    val o = js("{}")\n    o["fromBox"] = fromBox\n    o["toBox"] = toBox\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\n\npublic external
interface GeometryUtils {\n    fun getBoxQuads(options: BoxQuadOptions = definedExternally):
Array<DOMQuad>\n    fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n    fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n    fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions =
definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript
[Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\n\npublic external abstract class Touch
{\n    open val identifier: Int\n    open val target: EventTarget\n    open val screenX: Int\n    open val screenY: Int\n
open val clientX: Int\n    open val clientY: Int\n    open val pageX: Int\n    open val pageY: Int\n    open val region:
String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n    override fun item(index: Int):
Touch?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int): Touch? =
asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n    open val touches: TouchList\n
open val targetTouches: TouchList\n    open val changedTouches: TouchList\n    open val altKey: Boolean\n    open
val metaKey: Boolean\n    open val ctrlKey: Boolean\n    open val shiftKey: Boolean\n\n    companion object {\n
val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\n\npublic external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLElement {\n    override var
onabort: ((Event) -> dynamic)?\n    override var onblur: ((FocusEvent) -> dynamic)?\n    override var oncancel:
((Event) -> dynamic)?\n    override var oncanplay: ((Event) -> dynamic)?\n    override var oncanplaythrough:
((Event) -> dynamic)?\n    override var onchange: ((Event) -> dynamic)?\n    override var onclick: ((MouseEvent) ->
dynamic)?\n    override var onclose: ((Event) -> dynamic)?\n    override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n    override var oncuechange: ((Event) -> dynamic)?\n    override var ondblclick: ((MouseEvent) ->
dynamic)?\n    override var ondrag: ((DragEvent) -> dynamic)?\n    override var ondragend: ((DragEvent) ->
dynamic)?\n    override var ondragenter: ((DragEvent) -> dynamic)?\n    override var ondragexit: ((DragEvent) ->
dynamic)?\n    override var ondragleave: ((DragEvent) -> dynamic)?\n    override var ondragover: ((DragEvent) ->
dynamic)?\n    override var ondragstart: ((DragEvent) -> dynamic)?\n    override var ondrop: ((DragEvent) ->
dynamic)?\n    override var ondurationchange: ((Event) -> dynamic)?\n    override var onemptied: ((Event) ->
dynamic)?\n    override var onended: ((Event) -> dynamic)?\n    override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n    override var onfocus: ((FocusEvent) -> dynamic)?\n    override var oninput: ((InputEvent) -
> dynamic)?\n    override var oninvalid: ((Event) -> dynamic)?\n    override var onkeydown: ((KeyboardEvent) ->

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dynamic)?\n  override var onkeypress: ((KeyboardEvent) -> dynamic)?\n  override var onkeyup:
((KeyboardEvent) -> dynamic)?\n  override var onload: ((Event) -> dynamic)?\n  override var onloadeddata:
((Event) -> dynamic)?\n  override var onloadedmetadata: ((Event) -> dynamic)?\n  override var onloadend:
((Event) -> dynamic)?\n  override var onloadstart: ((ProgressEvent) -> dynamic)?\n  override var onmousedown:
((MouseEvent) -> dynamic)?\n  override var onmouseenter: ((MouseEvent) -> dynamic)?\n  override var
onmouseleave: ((MouseEvent) -> dynamic)?\n  override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n  override var onmouseover: ((MouseEvent) ->
dynamic)?\n  override var onmouseup: ((MouseEvent) -> dynamic)?\n  override var onwheel: ((WheelEvent) ->
dynamic)?\n  override var onpause: ((Event) -> dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n  override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n  override var onreset: ((Event) -> dynamic)?\n  override var
onresize: ((Event) -> dynamic)?\n  override var onscroll: ((Event) -> dynamic)?\n  override var onseeked:
((Event) -> dynamic)?\n  override var onseeking: ((Event) -> dynamic)?\n  override var onselect: ((Event) ->
dynamic)?\n  override var onshow: ((Event) -> dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n  override var onsuspend: ((Event) -> dynamic)?\n  override var
ontimeupdate: ((Event) -> dynamic)?\n  override var ontoggle: ((Event) -> dynamic)?\n  override var
onvolumechange: ((Event) -> dynamic)?\n  override var onwaiting: ((Event) -> dynamic)?\n  override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val isContentEditable:
Boolean\n  override val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val
firstElementChild: Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n
  override val previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val
assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg
nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external open class
Audio(src: String = definedExternally) : HTMLAudioElement {\n    override var onabort: ((Event) -> dynamic)?\n

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override var onBlur: ((FocusEvent) -> dynamic)?\n  override var onCancel: ((Event) -> dynamic)?\n  override var
oncanplay: ((Event) -> dynamic)?\n  override var oncanplaythrough: ((Event) -> dynamic)?\n  override var
onchange: ((Event) -> dynamic)?\n  override var onclick: ((MouseEvent) -> dynamic)?\n  override var onclose:
((Event) -> dynamic)?\n  override var oncontextmenu: ((MouseEvent) -> dynamic)?\n  override var oncuechange:
((Event) -> dynamic)?\n  override var ondblclick: ((MouseEvent) -> dynamic)?\n  override var ondrag:
((DragEvent) -> dynamic)?\n  override var ondragend: ((DragEvent) -> dynamic)?\n  override var ondragenter:
((DragEvent) -> dynamic)?\n  override var ondragexit: ((DragEvent) -> dynamic)?\n  override var ondragleave:
((DragEvent) -> dynamic)?\n  override var ondragover: ((DragEvent) -> dynamic)?\n  override var ondragstart:
((DragEvent) -> dynamic)?\n  override var ondrop: ((DragEvent) -> dynamic)?\n  override var ondurationchange:
((Event) -> dynamic)?\n  override var onemptied: ((Event) -> dynamic)?\n  override var onended: ((Event) ->
dynamic)?\n  override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n  override var onfocus:
((FocusEvent) -> dynamic)?\n  override var oninput: ((InputEvent) -> dynamic)?\n  override var oninvalid:
((Event) -> dynamic)?\n  override var onkeydown: ((KeyboardEvent) -> dynamic)?\n  override var onkeypress:
((KeyboardEvent) -> dynamic)?\n  override var onkeyup: ((KeyboardEvent) -> dynamic)?\n  override var onload:
((Event) -> dynamic)?\n  override var onloadeddata: ((Event) -> dynamic)?\n  override var onloadedmetadata:
((Event) -> dynamic)?\n  override var onloadend: ((Event) -> dynamic)?\n  override var onloadstart:
((ProgressEvent) -> dynamic)?\n  override var onmousedown: ((MouseEvent) -> dynamic)?\n  override var
onmouseenter: ((MouseEvent) -> dynamic)?\n  override var onmouseleave: ((MouseEvent) -> dynamic)?\n
override var onmousemove: ((MouseEvent) -> dynamic)?\n  override var onmouseout: ((MouseEvent) ->
dynamic)?\n  override var onmouseover: ((MouseEvent) -> dynamic)?\n  override var onmouseup: ((MouseEvent)
-> dynamic)?\n  override var onwheel: ((WheelEvent) -> dynamic)?\n  override var onpause: ((Event) ->
dynamic)?\n  override var onplay: ((Event) -> dynamic)?\n  override var onplaying: ((Event) -> dynamic)?\n
override var onprogress: ((ProgressEvent) -> dynamic)?\n  override var onratechange: ((Event) -> dynamic)?\n
override var onreset: ((Event) -> dynamic)?\n  override var onresize: ((Event) -> dynamic)?\n  override var
onscroll: ((Event) -> dynamic)?\n  override var onseeked: ((Event) -> dynamic)?\n  override var onseeking:
((Event) -> dynamic)?\n  override var onselect: ((Event) -> dynamic)?\n  override var onshow: ((Event) ->
dynamic)?\n  override var onstalled: ((Event) -> dynamic)?\n  override var onsubmit: ((Event) -> dynamic)?\n
override var onsuspend: ((Event) -> dynamic)?\n  override var ontimeupdate: ((Event) -> dynamic)?\n  override
var ontoggle: ((Event) -> dynamic)?\n  override var onvolumechange: ((Event) -> dynamic)?\n  override var
onwaiting: ((Event) -> dynamic)?\n  override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n  override
var onlostpointercapture: ((PointerEvent) -> dynamic)?\n  override var onpointerdown: ((PointerEvent) ->
dynamic)?\n  override var onpointermove: ((PointerEvent) -> dynamic)?\n  override var onpointerup:
((PointerEvent) -> dynamic)?\n  override var onpointercancel: ((PointerEvent) -> dynamic)?\n  override var
onpointerover: ((PointerEvent) -> dynamic)?\n  override var onpointerout: ((PointerEvent) -> dynamic)?\n
override var onpointerenter: ((PointerEvent) -> dynamic)?\n  override var onpointerleave: ((PointerEvent) ->
dynamic)?\n  override var oncopy: ((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) ->
dynamic)?\n  override var onpaste: ((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n
override val isContentEditable: Boolean\n  override val style: CSSStyleDeclaration\n  override val children:
HTMLCollection\n  override val firstElementChild: Element?\n  override val lastElementChild: Element?\n
override val childElementCount: Int\n  override val previousElementSibling: Element?\n  override val
nextElementSibling: Element?\n  override val assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg
nodes: dynamic)\n  override fun append(vararg nodes: dynamic)\n  override fun querySelector(selectors: String):
Element?\n  override fun querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes:
dynamic)\n  override fun after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n
override fun remove()\n  override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */):
Array<DOMQuad>\n  override fun convertQuadFromNode(quad: dynamic, from: dynamic, options:
ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect:
DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n

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override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n    val NETWORK_EMPTY: Short\n    val
NETWORK_IDLE: Short\n    val NETWORK_LOADING: Short\n    val NETWORK_NO_SOURCE: Short\n
    val HAVE_NOTHING: Short\n    val HAVE_METADATA: Short\n    val HAVE_CURRENT_DATA:
Short\n    val HAVE_FUTURE_DATA: Short\n    val HAVE_ENOUGH_DATA: Short\n    val
ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }
}\n\n/**\n * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n *\npublic external open class
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLInputElement {\n    override var onabort:
((Event) -> dynamic)?\n    override var onblur: ((FocusEvent) -> dynamic)?\n    override var oncancel: ((Event) ->
dynamic)?\n    override var oncanplay: ((Event) -> dynamic)?\n    override var oncanplaythrough: ((Event) ->
dynamic)?\n    override var onchange: ((Event) -> dynamic)?\n    override var onclick: ((MouseEvent) ->
dynamic)?\n    override var onclose: ((Event) -> dynamic)?\n    override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n    override var oncuechange: ((Event) -> dynamic)?\n    override var ondblclick: ((MouseEvent) ->
dynamic)?\n    override var ondrag: ((DragEvent) -> dynamic)?\n    override var ondragend: ((DragEvent) ->
dynamic)?\n    override var ondragenter: ((DragEvent) -> dynamic)?\n    override var ondragexit: ((DragEvent) ->
dynamic)?\n    override var ondragleave: ((DragEvent) -> dynamic)?\n    override var ondragover: ((DragEvent) ->
dynamic)?\n    override var ondragstart: ((DragEvent) -> dynamic)?\n    override var ondrop: ((DragEvent) ->
dynamic)?\n    override var ondurationchange: ((Event) -> dynamic)?\n    override var onemptied: ((Event) ->
dynamic)?\n    override var onended: ((Event) -> dynamic)?\n    override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n    override var onfocus: ((FocusEvent) -> dynamic)?\n    override var oninput: ((InputEvent) -
> dynamic)?\n    override var oninvalid: ((Event) -> dynamic)?\n    override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n    override var onkeypress: ((KeyboardEvent) -> dynamic)?\n    override var onkeyup:
((KeyboardEvent) -> dynamic)?\n    override var onload: ((Event) -> dynamic)?\n    override var onloadeddata:
((Event) -> dynamic)?\n    override var onloadedmetadata: ((Event) -> dynamic)?\n    override var onloadend:
((Event) -> dynamic)?\n    override var onloadstart: ((ProgressEvent) -> dynamic)?\n    override var onmousedown:
((MouseEvent) -> dynamic)?\n    override var onmouseenter: ((MouseEvent) -> dynamic)?\n    override var
onmouseleave: ((MouseEvent) -> dynamic)?\n    override var onmousemove: ((MouseEvent) -> dynamic)?\n
    override var onmouseout: ((MouseEvent) -> dynamic)?\n    override var onmouseover: ((MouseEvent) ->
dynamic)?\n    override var onmouseup: ((MouseEvent) -> dynamic)?\n    override var onwheel: ((WheelEvent) ->
dynamic)?\n    override var onpause: ((Event) -> dynamic)?\n    override var onplay: ((Event) -> dynamic)?\n
    override var onplaying: ((Event) -> dynamic)?\n    override var onprogress: ((ProgressEvent) -> dynamic)?\n
    override var onratechange: ((Event) -> dynamic)?\n    override var onreset: ((Event) -> dynamic)?\n    override var
onresize: ((Event) -> dynamic)?\n    override var onscroll: ((Event) -> dynamic)?\n    override var onseeked:
((Event) -> dynamic)?\n    override var onseeking: ((Event) -> dynamic)?\n    override var onselect: ((Event) ->
dynamic)?\n    override var onshow: ((Event) -> dynamic)?\n    override var onstalled: ((Event) -> dynamic)?\n
    override var onsubmit: ((Event) -> dynamic)?\n    override var onsuspend: ((Event) -> dynamic)?\n    override var
ontimeupdate: ((Event) -> dynamic)?\n    override var ontoggle: ((Event) -> dynamic)?\n    override var
onvolumechange: ((Event) -> dynamic)?\n    override var onwaiting: ((Event) -> dynamic)?\n    override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n    override var onlostpointercapture: ((PointerEvent) ->

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dynamic)?\n  override var onpointerdown: ((PointerEvent) -> dynamic)?\n  override var onpointermove:
((PointerEvent) -> dynamic)?\n  override var onpointerup: ((PointerEvent) -> dynamic)?\n  override var
onpointercancel: ((PointerEvent) -> dynamic)?\n  override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n  override var onpointerenter: ((PointerEvent) ->
dynamic)?\n  override var onpointerleave: ((PointerEvent) -> dynamic)?\n  override var oncopy:
((ClipboardEvent) -> dynamic)?\n  override var oncut: ((ClipboardEvent) -> dynamic)?\n  override var onpaste:
((ClipboardEvent) -> dynamic)?\n  override var contentEditable: String\n  override val isContentEditable:
Boolean\n  override val style: CSSStyleDeclaration\n  override val children: HTMLCollection\n  override val
firstElementChild: Element?\n  override val lastElementChild: Element?\n  override val childElementCount: Int\n
  override val previousElementSibling: Element?\n  override val nextElementSibling: Element?\n  override val
assignedSlot: HTMLSlotElement?\n  override fun prepend(vararg nodes: dynamic)\n  override fun append(vararg
nodes: dynamic)\n  override fun querySelector(selectors: String): Element?\n  override fun
querySelectorAll(selectors: String): NodeList\n  override fun before(vararg nodes: dynamic)\n  override fun
after(vararg nodes: dynamic)\n  override fun replaceWith(vararg nodes: dynamic)\n  override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n  override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n  override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n  override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n  companion object {\n      val ELEMENT_NODE: Short\n      val
ATTRIBUTE_NODE: Short\n      val TEXT_NODE: Short\n      val CDATA_SECTION_NODE: Short\n      val
ENTITY_REFERENCE_NODE: Short\n      val ENTITY_NODE: Short\n      val
PROCESSING_INSTRUCTION_NODE: Short\n      val COMMENT_NODE: Short\n      val
DOCUMENT_NODE: Short\n      val DOCUMENT_TYPE_NODE: Short\n      val
DOCUMENT_FRAGMENT_NODE: Short\n      val NOTATION_NODE: Short\n      val
DOCUMENT_POSITION_DISCONNECTED: Short\n      val DOCUMENT_POSITION_PRECEDING: Short\n
      val DOCUMENT_POSITION_FOLLOWING: Short\n      val DOCUMENT_POSITION_CONTAINS: Short\n
      val DOCUMENT_POSITION_CONTAINED_BY: Short\n      val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n\n  public external interface
UnionElementOrHTMLCollection\n  public external interface UnionElementOrRadioNodeList\n  public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n  public external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n  public external interface UnionElementOrMouseEvent\n  public
external interface RenderingContext\n  public external interface HTMLOrSVGImageElement :
CanvasImageSource\n  public external interface CanvasImageSource : ImageBitmapSource\n  public external
interface ImageBitmapSource\n  public external interface UnionMessagePortOrWindowProxy\n  public external
interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
DocumentReadyState {\n  companion object\n}\n\npublic inline val DocumentReadyState.Companion.LOADING:
DocumentReadyState get() = "loading".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
"interactive".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
"complete".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
CanPlayTypeResult {\n  companion object\n}\n\npublic inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = "".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
"maybe".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val

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CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() =
  \"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackMode
{\n  companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() =
  \"disabled\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
  \"hidden\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
  \"showing\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackKind
{\n  companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =
  \"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
  \"captions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.DESCRPTIONS: TextTrackKind get() =
  \"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
  \"chapters\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
  \"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SelectionMode
{\n  companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() =
  \"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.START:
SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val
SelectionMode.Companion.END: SelectionMode get() =
  \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.PRESERVE:
SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanvasFillRule {\n  companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO:
CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val
CanvasFillRule.Companion.EVENODD: CanvasFillRule get() =
  \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ImageSmoothingQuality {\n  companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW:
ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() =
  \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val
ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() =
  \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineCap
{\n  companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() =
  \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.ROUND:
CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val
CanvasLineCap.Companion.SQUARE: CanvasLineCap get() =
  \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineJoin
{\n  companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
  \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:

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CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
\"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextAlign
{\n  companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() =
\"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END:
CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() =
\"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT:
CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanvasTextBaseline {\n  companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasDirection
{\n  companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() =
\"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL:
CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.INHERIT: CanvasDirection get() =
\"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollRestoration
{\n  companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
\"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
\"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageOrientation
{\n  companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() =
\"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY:
ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this
interface! *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
PremultiplyAlpha {\n  companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE:
PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() =
\"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val
PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() =
\"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface!
*\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface

```

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ColorSpaceConversion {\n  companion object\n}\n\npublic inline val ColorSpaceConversion.Companion.NONE:
ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
\"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ResizeQuality
{\n  companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() =
\"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW:
ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.MEDIUM: ResizeQuality get() =
\"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH:
ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
BinaryType {\n  companion object\n}\n\n\npublic inline val BinaryType.Companion.BLOB: BinaryType get() =
\"blob\".asDynamic().unsafeCast<BinaryType>()\n\n\npublic inline val BinaryType.Companion.ARRAYBUFFER:
BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
WorkerType {\n  companion object\n}\n\n\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get() =
\"classic\".asDynamic().unsafeCast<WorkerType>()\n\n\npublic inline val WorkerType.Companion.MODULE:
WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n\n\n/* please, don't implement this
interface! *\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ShadowRootMode {\n  companion object\n}\n\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface ScrollBehavior
{\n  companion object\n}\n\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
\"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\n\npublic inline val ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface
ScrollLogicalPosition {\n  companion object\n}\n\n\npublic inline val ScrollLogicalPosition.Companion.START:
ScrollLogicalPosition get() = \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n\n\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external interface CSSBoxType {\n
  companion object\n}\n\n\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() =
\"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\n\npublic inline val CSSBoxType.Companion.BORDER:
CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\n\n\npublic inline val
CSSBoxType.Companion.PADDING: CSSBoxType get() =
\"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\n\npublic inline val CSSBoxType.Companion.CONTENT:
CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()\", /*\n\n * Copyright 2010-2019 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n\n *\n\n\n// NOTE: THIS FILE IS AUTO-GENERATED,

```


DO NOT EDIT! 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.pointerevents.*
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 redirect: RequestRedirect?
    get() = definedExternally
    set(value) = definedExternally
    var integrity: String?
    get() = definedExternally
    set(value) = definedExternally
    var keepalive: Boolean?
    get() = definedExternally
    set(value) = definedExternally
    var window: Any?
    get() = definedExternally
    set(value) = definedExternally
}

@kotlin.internal.InlineOnly
public inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {
    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>
    override val bodyUsed: Boolean
    fun clone(): Response
    override fun arrayBuffer(): Promise<ArrayBuffer>
    override fun blob(): Promise<Blob>
    override fun formData(): Promise<FormData>
    override fun json(): Promise<Any?>
}

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override fun text(): Promise<String>\n\n companion object {\n    fun error(): Response\n    fun redirect(url:
String, status: Short = definedExternally): Response\n    }\n\n\npublic external interface ResponseInit {\n    var
status: Short? /* = 200 */\n    get() = definedExternally\n    set(value) = definedExternally\n    var statusText:
String? /* = \"OK\" */\n    get() = definedExternally\n    set(value) = definedExternally\n    var headers:
dynamic\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200,
statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\n    val o = js(\"({})\")\n    o[\"status\"]
= status\n    o[\"statusText\"] = statusText\n    o[\"headers\"] = headers\n    return o\n}\n\n/* please, don't implement
this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
RequestType {\n    companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get()
= \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO:
RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic
inline val RequestType.Companion.IMAGE: RequestType get() =
\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT:
RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.STYLE: RequestType get() =
\"style\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.TRACK:
RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val
RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/*
please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
RequestDestination {\n    companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY:
RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.DOCUMENT: RequestDestination get() =
\"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.EMBED: RequestDestination get() =
\"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.FONT: RequestDestination get() =
\"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.IMAGE: RequestDestination get() =
\"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MANIFEST: RequestDestination get() =
\"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.MEDIA: RequestDestination get() =
\"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.OBJECT: RequestDestination get() =
\"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.REPORT: RequestDestination get() =
\"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SCRIPT: RequestDestination get() =
\"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SERVICEWORKER: RequestDestination get() =
\"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.SHAREDWORKER: RequestDestination get() =
\"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.STYLE: RequestDestination get() =
\"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val

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RequestDestination.Companion.WORKER: RequestDestination get() =
    `worker`.asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
    `xslt`.asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface RequestMode {\n
    companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE: RequestMode get() =
    `navigate`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = `same-
origin`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = `no-cors`.asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = `cors`.asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
RequestCredentials {\n
    companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT:
RequestCredentials get() = `omit`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = `same-
origin`.asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
    `include`.asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface RequestCache
{\n
    companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() =
    `default`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_STORE:
RequestCache get() = `no-store`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.RELOAD: RequestCache get() =
    `reload`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE:
RequestCache get() = `no-cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = `force-
cache`.asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = `only-if-
cached`.asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface RequestRedirect
{\n
    companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
    `follow`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = `error`.asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
    `manual`.asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface ResponseType
{\n
    companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() =
    `basic`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS:
ResponseType get() = `cors`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.DEFAULT: ResponseType get() =
    `default`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR:
ResponseType get() = `error`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUE: ResponseType get() =
    `opaque`.asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
    `opaqueredirect`.asDynamic().unsafeCast<ResponseType>(), /*\n\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that

```

can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\n\npublic external open class MediaStream() : EventTarget {\n\n constructor(stream: MediaStream)\n constructor(tracks: Array<MediaStreamTrack>)\n\n open val id: String\n open val active: Boolean\n\n var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n\n fun getAudioTracks(): Array<MediaStreamTrack>\n fun getVideoTracks(): Array<MediaStreamTrack>\n fun getTracks(): Array<MediaStreamTrack>\n fun getTrackById(trackId: String): MediaStreamTrack?\n fun addTrack(track: MediaStreamTrack)\n fun removeTrack(track: MediaStreamTrack)\n fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\n\npublic external abstract class MediaStreamTrack : EventTarget {\n\n open val kind: String\n open val id: String\n open val label: String\n open var enabled: Boolean\n open val muted: Boolean\n open var onmute: ((Event) -> dynamic)?\n open var onunmute: ((Event) -> dynamic)?\n open val readyState: MediaStreamTrackState\n open var onended: ((Event) -> dynamic)?\n open var onoverconstrained: ((Event) -> dynamic)?\n\n fun clone(): MediaStreamTrack\n fun stop()\n fun getCapabilities(): MediaTrackCapabilities\n fun getConstraints(): MediaTrackConstraints\n fun getSettings(): MediaTrackSettings\n fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\n */\n\npublic external interface MediaTrackSupportedConstraints {\n\n var width: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var height: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var aspectRatio: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var frameRate: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var facingMode: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var resizeMode: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var volume: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var sampleRate: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var sampleSize: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var echoCancellation: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var autoGainControl: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var noiseSuppression: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var latency: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var channelCount: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var deviceId: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n\n var groupId: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n\n val o = js("{}")\n\n o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] = frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n

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o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] =
echoCancellation\n  o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] =
groupId\n  return o\n}\n\npublic external interface MediaTrackCapabilities {\n  var width: ULongRange?\n
get() = definedExternally\n  set(value) = definedExternally\n  var height: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var aspectRatio: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var frameRate: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var facingMode: Array<String>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var resizeMode: Array<String>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var volume: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var sampleRate: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var sampleSize: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var echoCancellation: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var autoGainControl: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var noiseSuppression: Array<Boolean>?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var latency: DoubleRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var channelCount: ULongRange?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var deviceId: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var groupId: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width:
ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined,
frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? =
undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize:
ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>?
= undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount:
ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities
{\n  val o = js("{}")\n  o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n
o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n
o["volume"] = volume\n  o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n  o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return o\n}\n\n/**\n * Exposes the JavaScript
[MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n
*/\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n  var advanced:
Array<MediaTrackConstraintSet>?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced:
Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined,
aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined,
resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize:
dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined,
noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined,
deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n  val o = js("{}")\n
o["advanced"] = advanced\n  o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] =
aspectRatio\n  o["frameRate"] = frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] =
resizeMode\n  o["volume"] = volume\n  o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n
o["echoCancellation"] = echoCancellation\n  o["autoGainControl"] = autoGainControl\n
o["noiseSuppression"] = noiseSuppression\n  o["latency"] = latency\n  o["channelCount"] = channelCount\n
o["deviceId"] = deviceId\n  o["groupId"] = groupId\n  return o\n}\n\npublic external interface

```

```

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
}

@kotlin.internal.InlineOnly
public inline fun MediaTrackConstraintSet(
    width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined,
    frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined,
    volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined,
    echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined,
    latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined,
    groupId: dynamic = undefined): MediaTrackConstraintSet {
    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 [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin */
@kotlin.internal.InlineOnly
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 resizeMode: String?
    get() = definedExternally
    set(value) = definedExternally
    var volume: Double?
    get() = definedExternally
    set(value) = definedExternally
    var sampleRate: Int?
    get() = definedExternally
    set(value) = definedExternally
    var sampleSize: Int?
    get() = definedExternally
    set(value) = definedExternally
    var echoCancellation: Boolean?
    get() = definedExternally
    set(value) = definedExternally
    var autoGainControl: Boolean?
    get() = definedExternally
    set(value) = definedExternally
    var noiseSuppression: Boolean?
    get() = definedExternally
    set(value) = definedExternally
    var latency: Double?
    get() = definedExternally
    set(value) = definedExternally
    var channelCount: Int?
    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 MediaTrackSettings(
    width: Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined,
    facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int? = undefined,
    sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? = undefined,
    noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined,
    deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {
    val o = js("{}")

```

```

o["width"] = width\n  o["height"] = height\n  o["aspectRatio"] = aspectRatio\n  o["frameRate"] =
frameRate\n  o["facingMode"] = facingMode\n  o["resizeMode"] = resizeMode\n  o["volume"] = volume\n
o["sampleRate"] = sampleRate\n  o["sampleSize"] = sampleSize\n  o["echoCancellation"] =
echoCancellation\n  o["autoGainControl"] = autoGainControl\n  o["noiseSuppression"] = noiseSuppression\n
o["latency"] = latency\n  o["channelCount"] = channelCount\n  o["deviceId"] = deviceId\n  o["groupId"] =
groupId\n  return o\n}\n\n**\n * Exposes the JavaScript
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n
*\n\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) :
Event {\n  open val track: MediaStreamTrack\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n  var track: MediaStreamTrack?\n
get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): MediaStreamTrackEventInit {\n  val o = js("{}")\n  o["track"] = track\n
o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] = composed\n  return
o\n}\n\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict:
OverconstrainedErrorEventInit) : Event {\n  open val error: dynamic\n\n  companion object {\n    val NONE:
Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE:
Short\n  }\n}\n\npublic external interface OverconstrainedErrorEventInit : EventInit {\n  var error: dynamic /* =
null */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun OverconstrainedErrorEventInit(error:
dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
OverconstrainedErrorEventInit {\n  val o = js("{}")\n  o["error"] = error\n  o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n  o["composed"] = composed\n  return o\n}\n\n**\n * Exposes the JavaScript
[MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n
*\n\npublic external
abstract class MediaDevices : EventTarget {\n  open var ondevicechange: ((Event) -> dynamic)?\n  fun
enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n  fun getSupportedConstraints():
MediaTrackSupportedConstraints\n  fun getUserMedia(constraints: MediaStreamConstraints = definedExternally):
Promise<MediaStream>\n}\n\n**\n * Exposes the JavaScript
[MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n
*\n\npublic external abstract class MediaDeviceInfo {\n  open val deviceId: String\n  open val kind: MediaDeviceKind\n
open val label: String\n  open val groupId: String\n  fun toJSON(): dynamic\n}\n\npublic external abstract class
InputDeviceInfo : MediaDeviceInfo {\n  fun getCapabilities(): MediaTrackCapabilities\n}\n\n**\n * Exposes the
JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to
Kotlin\n
*\n\npublic external interface MediaStreamConstraints {\n  var video: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var audio: dynamic /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n  val o =
js("{}")\n  o["video"] = video\n  o["audio"] = audio\n  return o\n}\n\npublic external interface
ConstrainablePattern {\n  var onoverconstrained: ((Event) -> dynamic)?\n  get() = definedExternally\n
set(value) = definedExternally\n  fun getCapabilities(): Capabilities\n  fun getConstraints(): Constraints\n  fun
getSettings(): Settings\n  fun applyConstraints(constraints: Constraints = definedExternally):
Promise<Unit>\n}\n\n**\n * Exposes the JavaScript
[DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n
*\n\npublic external
interface DoubleRange {\n  var max: Double?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var min: Double?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline fun DoubleRange(max: Double? = undefined,
min: Double? = undefined): DoubleRange {\n  val o = js("{}")\n  o["max"] = max\n  o["min"] = min\n

```

```

return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n  var exact: Double?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ideal: Double?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  o["max"] = max\n  o["min"] = min\n  return o\n}\n\npublic external interface ULongRange {\n  var max: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var min: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n  val o = js("{}")\n  o["max"] = max\n  o["min"] = min\n  return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n  var exact: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ideal: Int?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  o["max"] = max\n  o["min"] = min\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n  var exact: Boolean?\n  get() = definedExternally\n  set(value) = definedExternally\n  var ideal: Boolean?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n  var exact: dynamic\n  get() = definedExternally\n  set(value) = definedExternally\n  var ideal: dynamic\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n  val o = js("{}")\n  o["exact"] = exact\n  o["ideal"] = ideal\n  return o\n}\n\npublic external interface Capabilities\n\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n  val o = js("{}")\n  return o\n}\n\npublic external interface Settings\n\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n  val o = js("{}")\n  return o\n}\n\npublic external interface ConstraintSet\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n  val o = js("{}")\n  return o\n}\n\npublic external interface Constraints : ConstraintSet {\n  var advanced: Array<ConstraintSet>?\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\n  val o = js("{}")\n  o["advanced"] = advanced\n  return o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface MediaStreamTrackState {\n  companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = "live".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = "ended".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface VideoFacingModeEnum {\n  companion object\n}\n\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = "user".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = "environment".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val

```



```

VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() =
    \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val
VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() =
    \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
VideoResizeModeEnum {\n    companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
    \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-
scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
MediaDeviceKind {\n    companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT:
MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
    \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
    \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()), /*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface
PointerEventInit : MouseEventInit {\n    var pointerId: Int? /* = 0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var width: Double? /* = 1.0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var height: Double? /* = 1.0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var pressure: Float? /* = 0f */\n        get() = definedExternally\n
set(value) = definedExternally\n    var tangentialPressure: Float? /* = 0f */\n        get() = definedExternally\n
set(value) = definedExternally\n    var tiltX: Int? /* = 0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var tiltY: Int? /* = 0 */\n        get() = definedExternally\n
set(value) = definedExternally\n    var twist: Int? /* =
0 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var pointerType: String? /* = \"\" */\n
        get() = definedExternally\n        set(value) = definedExternally\n    var isPrimary: Boolean? /* = false */\n
        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f,
tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary:
Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): PointerEventInit {\n    val o = js(\"({})\")\n    o[\"pointerId\"] = pointerId\n    o[\"width\"] = width\n
o[\"height\"] = height\n    o[\"pressure\"] = pressure\n    o[\"tangentialPressure\"] = tangentialPressure\n
o[\"tiltX\"] = tiltX\n    o[\"tiltY\"] = tiltY\n    o[\"twist\"] = twist\n    o[\"pointerType\"] = pointerType\n
o[\"isPrimary\"] = isPrimary\n    o[\"screenX\"] = screenX\n    o[\"screenY\"] = screenY\n    o[\"clientX\"] =

```

```

clientX\n o["clientY"] = clientY\n o["button"] = button\n o["buttons"] = buttons\n o["relatedTarget"] =
relatedTarget\n o["region"] = region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] =
altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] =
modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open
class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val
pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val
tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val
pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}"/**\n
* Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport
org.w3c.dom.pointerevents.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n
* Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n
*/\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers,
SVGElementInstance {\n open val dataset: DOMStringMap\n open val ownerSVGElement:
SVGSVGElement?\n open val viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun
blur()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n
val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) =
definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? =
true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n
val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"] = markers\n o["clipped"] =
clipped\n return o\n}\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform:
SVGAnimatedTransformList\n fun getBBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n fun getCTM(): DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n

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val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin \n
* \n public external abstract class SVGGeometryElement : SVGGraphicsElement { \n    open val pathLength:
SVGAnimatedNumber \n    fun isPointInFill(point: DOMPoint): Boolean \n    fun isPointInStroke(point: DOMPoint):
Boolean \n    fun getTotalLength(): Float \n    fun getPointAtLength(distance: Float): DOMPoint \n \n    companion
object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE:
Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin \n
* \n public external
abstract class SVGNumber { \n    open var value: Float \n \n \n /** \n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin \n
* \n public external abstract
class SVGLength { \n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n \n    companion object { \n        val
SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val
SVG_LENGTHTYPE_PERCENTAGE: Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val
SVG_LENGTHTYPE_EXS: Short\n        val SVG_LENGTHTYPE_PX: Short\n        val
SVG_LENGTHTYPE_CM: Short\n        val SVG_LENGTHTYPE_MM: Short\n        val
SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT: Short\n        val SVG_LENGTHTYPE_PC:
Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin \n
* \n public external abstract
class SVGAngle { \n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits:
Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n \n    companion object { \n        val
SVG_ANGLETYPE_UNKNOWN: Short\n        val SVG_ANGLETYPE_UNSPECIFIED: Short\n        val
SVG_ANGLETYPE_DEG: Short\n        val SVG_ANGLETYPE_RAD: Short\n        val
SVG_ANGLETYPE_GRAD: Short\n    } \n} \n \n public external abstract class SVGNameList { \n    open val length:
Int\n    open val numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: dynamic): dynamic\n    fun
insertItemBefore(newItem: dynamic, index: Int): dynamic\n    fun replaceItem(newItem: dynamic, index: Int):
dynamic\n    fun removeItem(index: Int): dynamic\n    fun appendItem(newItem: dynamic): dynamic\n    fun
getItem(index: Int): dynamic \n} \n \n @kotlin.internal.InlineOnly\n public inline operator fun
SVGNameList.get(index: Int): dynamic = asDynamic()[index] \n \n @kotlin.internal.InlineOnly\n public inline
operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem } \n \n /** \n *
Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to

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Kotlin\n *
 \npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int): SVGNumber}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int): SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int): SVGLength}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal: Boolean}\n\n/**\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val animVal: Short}\n\n/**\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal: Int}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal: Float}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal: SVGLength}\n\n/**\n * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal: SVGAngle}\n\n/**\n * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String}\n\n/**\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val animVal: DOMRectReadOnly}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val animVal: SVGNumberList}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val animVal: SVGLengthList}\n\n/**\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n *
 Kotlin\n *
 \npublic external abstract class SVGStringList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: String): String\n fun insertItemBefore(newItem: String, index: Int): String\n fun

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replaceItem(newItem: String, index: Int): String\n fun removeItem(index: Int): String\n fun
appendItem(newItem: String): String\n fun getItem(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun SVGStringList.get(index: Int): String? =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int,
newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface SVGUnitTypes
{\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTTests](https://developer.mozilla.org/en/docs/Web/API/SVGTTests) to Kotlin\n *\n\npublic external interface
SVGTTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val
SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val
SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n *\n\npublic
external interface SVGURIReference {\n val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n *\n\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val
width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open
val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?):
NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun
checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun
createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle():
SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun
createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun
createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun
getElementById(elementId: String): Element\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\n fun
unsuspendRedraw(suspendHandleID: Int)\n fun unsuspendRedrawAll()\n fun forceRedraw()\n\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n *\n\npublic external
abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE:

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin \n * \n public
external abstract class SVGTitleElement : SVGElement { \n    companion object { \n        val ELEMENT_NODE:
Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE:
Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin \n * \n public
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox { \n    companion object
{ \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin \n * \n public external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference { \n    open val x:
SVGAnimatedLength \n    open val y: SVGAnimatedLength \n    open val width: SVGAnimatedLength \n    open val
height: SVGAnimatedLength \n    open val instanceRoot: SVGElement? \n    open val animatedInstanceRoot:
SVGElement? \n \n    companion object { \n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n public external open class
SVGUseElementShadowRoot : ShadowRoot { \n    companion object { \n        val ELEMENT_NODE: Short\n
        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
SVGElementInstance {\n    val correspondingElement: SVGElement?\n    get() = definedExternally\n    val
correspondingUseElement: SVGUseElement?\n    get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n    open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\n\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
GetSVGDocument {\n    fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript
[SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\n\npublic
external abstract class SVGStyleElement : SVGElement, LinkStyle {\n    open var type: String\n    open var media:
String\n    open var title: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n */\n\npublic external
abstract class SVGTransform {\n    open val type: Short\n    open val matrix: DOMMatrix\n    open val angle:
Float\n    fun setMatrix(matrix: DOMMatrixReadOnly)\n    fun setTranslate(tx: Float, ty: Float)\n    fun setScale(sx:
Float, sy: Float)\n    fun setRotate(angle: Float, cx: Float, cy: Float)\n    fun setSkewX(angle: Float)\n    fun
setSkewY(angle: Float)\n\n    companion object {\n        val SVG_TRANSFORM_UNKNOWN: Short\n        val
SVG_TRANSFORM_MATRIX: Short\n        val SVG_TRANSFORM_TRANSLATE: Short\n        val
SVG_TRANSFORM_SCALE: Short\n        val SVG_TRANSFORM_ROTATE: Short\n        val
SVG_TRANSFORM_SKEWX: Short\n        val SVG_TRANSFORM_SKEWY: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n
*/\n\npublic external abstract class SVGTransformList {\n    open val length: Int\n    open val numberOfItems: Int\n
fun clear()\n    fun initialize(newItem: SVGTransform): SVGTransform\n    fun insertItemBefore(newItem:
SVGTransform, index: Int): SVGTransform\n    fun replaceItem(newItem: SVGTransform, index: Int):
SVGTransform\n    fun removeItem(index: Int): SVGTransform\n    fun appendItem(newItem: SVGTransform):
SVGTransform\n    fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n    fun
consolidate(): SVGTransform?\n    fun getItem(index: Int):
SVGTransform\n}\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SVGTransformList.get(index: Int):
SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes
the JavaScript

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[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin\n * public external abstract class SVGAnimatedTransformList {\n open val baseVal: SVGTransformList\n open val animVal: SVGTransformList\n}\n\n**\n * Exposes the JavaScript

[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n * public external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice: Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val SVG_PRESERVEASPECTRATIO_NONE: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n val SVG_MEETORSLICE_UNKNOWN: Short\n val SVG_MEETORSLICE_MEET: Short\n val SVG_MEETORSLICE_SLICE: Short\n }\n}\n\n**\n * Exposes the JavaScript

[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin\n * public external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal: SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n**\n * Exposes the JavaScript

[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n * public external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n**\n * Exposes the JavaScript

[SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n * public external abstract class SVGRectElement : SVGGeometryElement {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val rx: SVGAnimatedLength\n open val ry: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n**\n * Exposes the JavaScript

[SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n * public external abstract class SVGCircleElement : SVGGeometryElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val

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CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin \n * \n public
external abstract class SVGEllipseElement : SVGGeometryElement { \n    open val cx: SVGAnimatedLength \n
open val cy: SVGAnimatedLength \n    open val rx: SVGAnimatedLength \n    open val ry: SVGAnimatedLength \n \n
companion object { \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short \n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short \n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short \n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin \n * \n public
external abstract class SVGLineElement : SVGGeometryElement { \n    open val x1: SVGAnimatedLength \n    open
val y1: SVGAnimatedLength \n    open val x2: SVGAnimatedLength \n    open val y2: SVGAnimatedLength \n \n
companion object { \n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val
TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE:
Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val
COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short \n
    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short \n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short \n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin \n * \n public
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference { \n    companion object { \n
    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val
CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE:
Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short \n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short \n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    } \n} \n \n /** \n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin \n * \n public
external interface SVGAnimatedPoints { \n    val points: SVGPointList \n    val animatedPoints:
SVGPointList \n} \n \n public external abstract class SVGPointList { \n    open val length: Int \n    open val
numberOfItems: Int \n    fun clear() \n    fun initialize(newItem: DOMPoint): DOMPoint \n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint \n    fun replaceItem(newItem: DOMPoint, index:

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Int): DOMPoint\n fun removeItem(index: Int): DOMPoint\n fun addItem(newItem: DOMPoint):
DOMPoint\n fun getItem(index: Int): DOMPoint\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n *
Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n
*\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n
*\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n open val textLength:
SVGAnimatedLength\n open val lengthAdjust: SVGAnimatedEnumeration\n fun getNumberOfChars(): Int\n
fun getComputedTextLength(): Float\n fun getSubStringLength(charnum: Int, nchars: Int): Float\n fun
getStartPositionOfChar(charnum: Int): DOMPoint\n fun getEndPositionOfChar(charnum: Int): DOMPoint\n fun
getExtentOfChar(charnum: Int): DOMRect\n fun getRotationOfChar(charnum: Int): Float\n fun
getCharNumAtPosition(point: DOMPoint): Int\n fun selectSubString(charnum: Int, nchars: Int)\n\n companion
object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n
val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to
Kotlin\n *\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n open val x:
SVGAnimatedLengthList\n open val y: SVGAnimatedLengthList\n open val dx: SVGAnimatedLengthList\n

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open val dy: SVGAnimatedLengthList\n  open val rotate: SVGAnimatedNumberList\n\n  companion object {\n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\n\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n  companion object {\n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\n\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\n  companion object {\n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n */\n\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n  open val startOffset: SVGAnimatedLength\n  open val method: SVGAnimatedEnumeration\n  open val spacing: SVGAnimatedEnumeration\n\n  companion object {\n    val TEXTPATH_METHODTYPE_UNKNOWN: Short\n    val TEXTPATH_METHODTYPE_ALIGN: Short\n    val TEXTPATH_METHODTYPE_STRETCH: Short\n    val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n    val TEXTPATH_SPACINGTYPE_AUTO: Short\n    val TEXTPATH_SPACINGTYPE_EXACT: Short\n    val LENGTHADJUST_UNKNOWN: Short\n    val LENGTHADJUST_SPACING: Short\n    val LENGTHADJUST_SPACINGANDGLYPHS: Short\n    val ELEMENT_NODE: Short\n    val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n  }\n}

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ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic
external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,
HTMLOrSVGImageElement {\n    open val x: SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open
val width: SVGAnimatedLength\n    open val height: SVGAnimatedLength\n    open val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n    open var crossOrigin: String?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to
Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\npublic external abstract class
SVGMarkerElement : SVGElement, SVGFitToViewBox {\n    open val refX: SVGAnimatedLength\n    open val
refY: SVGAnimatedLength\n    open val markerUnits: SVGAnimatedEnumeration\n    open val markerWidth:
SVGAnimatedLength\n    open val markerHeight: SVGAnimatedLength\n    open val orientType:
SVGAnimatedEnumeration\n    open val orientAngle: SVGAnimatedAngle\n    open var orient: String\n    fun
setOrientToAuto()\n    fun setOrientToAngle(angle: SVGAngle)\n\n    companion object {\n        val
SVG_MARKERUNITS_UNKNOWN: Short\n        val SVG_MARKERUNITS_USERSPACEONUSE: Short\n
        val SVG_MARKERUNITS_STROKewidth: Short\n        val SVG_MARKER_ORIENT_UNKNOWN: Short\n
        val SVG_MARKER_ORIENT_AUTO: Short\n        val SVG_MARKER_ORIENT_ANGLE: Short\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val

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DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n
*/\npublic external abstract class SVGSolidcolorElement : SVGElement {\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n
*/\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n
    open val gradientUnits: SVGAnimatedEnumeration\n    open val gradientTransform: SVGAnimatedTransformList\n
    open val spreadMethod: SVGAnimatedEnumeration\n\n    companion object {\n        val
SVG_SPREADMETHOD_UNKNOWN: Short\n        val SVG_SPREADMETHOD_PAD: Short\n        val
SVG_SPREADMETHOD_REFLECT: Short\n        val SVG_SPREADMETHOD_REPEAT: Short\n        val
SVG_UNIT_TYPE_UNKNOWN: Short\n        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript
[SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to
Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n    open val x1:
SVGAnimatedLength\n    open val y1: SVGAnimatedLength\n    open val x2: SVGAnimatedLength\n    open val
y2: SVGAnimatedLength\n\n    companion object {\n        val SVG_SPREADMETHOD_UNKNOWN: Short\n
        val SVG_SPREADMETHOD_PAD: Short\n        val SVG_SPREADMETHOD_REFLECT: Short\n        val
SVG_SPREADMETHOD_REPEAT: Short\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n        val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }n}\n\n/**\n * Exposes the JavaScript

```

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[SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to
Kotlin\n *\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n  open val cx:
SVGAnimatedLength\n  open val cy: SVGAnimatedLength\n  open val r: SVGAnimatedLength\n  open val fx:
SVGAnimatedLength\n  open val fy: SVGAnimatedLength\n  open val fr: SVGAnimatedLength\n\n  companion
object {\n    val SVG_SPREADMETHOD_UNKNOWN: Short\n    val SVG_SPREADMETHOD_PAD:
Short\n    val SVG_SPREADMETHOD_REFLECT: Short\n    val SVG_SPREADMETHOD_REPEAT:
Short\n    val SVG_UNIT_TYPE_UNKNOWN: Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE:
Short\n    val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n    val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement {\n  companion object {\n    val
SVG_SPREADMETHOD_UNKNOWN: Short\n    val SVG_SPREADMETHOD_PAD: Short\n    val
SVG_SPREADMETHOD_REFLECT: Short\n    val SVG_SPREADMETHOD_REPEAT: Short\n    val
SVG_UNIT_TYPE_UNKNOWN: Short\n    val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n    val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class
SVGMeshrowElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n  }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n  companion object {\n    val ELEMENT_NODE: Short\n    val
ATTRIBUTE_NODE: Short\n    val TEXT_NODE: Short\n    val CDATA_SECTION_NODE: Short\n    val
ENTITY_REFERENCE_NODE: Short\n    val ENTITY_NODE: Short\n    val
PROCESSING_INSTRUCTION_NODE: Short\n    val COMMENT_NODE: Short\n    val
DOCUMENT_NODE: Short\n    val DOCUMENT_TYPE_NODE: Short\n    val
DOCUMENT_FRAGMENT_NODE: Short\n    val NOTATION_NODE: Short\n    val
DOCUMENT_POSITION_DISCONNECTED: Short\n    val DOCUMENT_POSITION_PRECEDING: Short\n

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    val DOCUMENT_POSITION_FOLLOWING: Short\n    val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n    val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n *\npublic
external abstract class SVGStopElement : SVGElement {\n    open val offset: SVGAnimatedNumber\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n *\npublic
external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference,
SVGUnitTypes {\n    open val patternUnits: SVGAnimatedEnumeration\n    open val patternContentUnits:
SVGAnimatedEnumeration\n    open val patternTransform: SVGAnimatedTransformList\n    open val x:
SVGAnimatedLength\n    open val y: SVGAnimatedLength\n    open val width: SVGAnimatedLength\n    open val
height: SVGAnimatedLength\n\n    companion object {\n        val SVG_UNIT_TYPE_UNKNOWN: Short\n
        val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n        val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGHatchElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class
SVGHatchpathElement : SVGElement {\n    companion object {\n        val ELEMENT_NODE: Short\n        val
ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    }

```


DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}"/**n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**n * Exposes the JavaScript
[Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\n\npublic external open class
Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) :
ImageBitmapSource {\n open val size: Number\n open val type: String\n open val isClosed: Boolean\n fun
slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\n
fun close()\n}\n\npublic external interface BlobPropertyBag {\n var type: String? /* = \"\" */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\n val o = js(\"({})\")\n o[\"type\"] = type\n return
o\n}\n\n/**n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n
*/\n\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag =
definedExternally) : Blob {\n open val name: String\n open val lastModified: Int\n}\n\npublic external interface
FilePropertyBag : BlobPropertyBag {\n var lastModified: Int?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? =
undefined, type: String? = \"\"): FilePropertyBag {\n val o = js(\"({})\")\n o[\"lastModified\"] = lastModified\n
o[\"type\"] = type\n return o\n}\n\n/**n * Exposes the JavaScript
[FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n */\n\npublic external abstract class
FileList : ItemArrayLike<File> {\n override fun item(index: Int): File?\n}\n\n@kotlin.internal.InlineOnly\npublic
inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**n * Exposes the JavaScript
[FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n */\n\npublic external open class
FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error:
dynamic\n var onloadstart: ((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n
var onload: ((Event) -> dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n
var onloadend: ((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob:
Blob)\n fun readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n
fun abort()\n\n companion object {\n val EMPTY: Short\n val LOADING: Short\n val DONE:
Short\n }n}\n\n/**n * Exposes the JavaScript
[FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\n\npublic external
open class FileReaderSync {\n fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n fun readAsBinaryString(blob:
Blob): String\n fun readAsText(blob: Blob, label: String = definedExternally): String\n fun
readAsDataURL(blob: Blob): String\n}\n"/**n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport

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org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n *\npublic external open
class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n  var onclick:
((MouseEvent) -> dynamic)?\n  var onerror: ((Event) -> dynamic)?\n  open val title: String\n  open val dir:
NotificationDirection\n  open val lang: String\n  open val body: String\n  open val tag: String\n  open val
image: String\n  open val icon: String\n  open val badge: String\n  open val sound: String\n  open val vibrate:
Array<out Int>\n  open val timestamp: Number\n  open val renotify: Boolean\n  open val silent: Boolean\n
open val noscreen: Boolean\n  open val requireInteraction: Boolean\n  open val sticky: Boolean\n  open val data:
Any?\n  open val actions: Array<out NotificationAction>\n  fun close()\n  companion object {\n    val
permission: NotificationPermission\n    val maxActions: Int\n    fun requestPermission(deprecatedCallback:
(NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n  }\n}\n\npublic
external interface NotificationOptions {\n  var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n
get() = definedExternally\n  set(value) = definedExternally\n  var lang: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var body: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var tag: String? /* = "" */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var image: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var icon: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var badge: String?\n  get() = definedExternally\n  set(value) = definedExternally\n
var sound: String?\n  get() = definedExternally\n  set(value) = definedExternally\n  var vibrate: dynamic\n
get() = definedExternally\n  set(value) = definedExternally\n  var timestamp: Number?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var renotify: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var silent: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var noscreen: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var requireInteraction: Boolean? /* = false */\n  get()
= definedExternally\n  set(value) = definedExternally\n  var sticky: Boolean? /* = false */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var data: Any? /* = null */\n  get() =
definedExternally\n  set(value) = definedExternally\n  var actions: Array<NotificationAction>? /* = arrayOf()
*/\n  get() = definedExternally\n  set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = "", body:
String? = "", tag: String? = "", image: String? = undefined, icon: String? = undefined, badge: String? = undefined,
sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? =
false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? =
false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n  val o =
js("{}")\n  o["dir"] = dir\n  o["lang"] = lang\n  o["body"] = body\n  o["tag"] = tag\n  o["image"] =
image\n  o["icon"] = icon\n  o["badge"] = badge\n  o["sound"] = sound\n  o["vibrate"] = vibrate\n
o["timestamp"] = timestamp\n  o["renotify"] = renotify\n  o["silent"] = silent\n  o["noscreen"] = noscreen\n
o["requireInteraction"] = requireInteraction\n  o["sticky"] = sticky\n  o["data"] = data\n  o["actions"] =
actions\n  return o\n}\n\npublic external interface NotificationAction {\n  var action: String?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var title: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var icon: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?, title:
String?, icon: String? = undefined): NotificationAction {\n  val o = js("{}")\n  o["action"] = action\n
o["title"] = title\n  o["icon"] = icon\n  return o\n}\n\npublic external interface GetNotificationOptions {\n  var
tag: String? /* = "" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = ""):
GetNotificationOptions {\n  val o = js("{}")\n  o["tag"] = tag\n  return o\n}\n\n/**\n * Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin

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*\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n  open val notification: Notification\n  open val action: String\n\n  companion object {\n
val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n  get() = definedExternally\n  set(value) = definedExternally\n  var action:
String? /* = \"\" */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n  val o = js(\"({})\")\n  o[\"notification\"] = notification\n  o[\"action\"] =
action\n  o[\"bubbles\"] = bubbles\n  o[\"cancelable\"] = cancelable\n  o[\"composed\"] = composed\n  return
o\n}\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
NotificationPermission {\n  companion object\n}\n\npublic inline val
NotificationPermission.Companion.DEFAULT: NotificationPermission get() =
\"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.DENIED: NotificationPermission get() =
\"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val
NotificationPermission.Companion.GRANTED: NotificationPermission get() =
\"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface!
*\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
NotificationDirection {\n  companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO:
NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.LTR: NotificationDirection get() =
\"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val
NotificationDirection.Companion.RTL: NotificationDirection get() =
\"rtl\".asDynamic().unsafeCast<NotificationDirection>()\n\n/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.xhr.*\n\n/*\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n\n*\n\npublic external
abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker,
UnionClientOrMessagePortOrServiceWorker {\n  open val scriptURL: String\n  open val state:
ServiceWorkerState\n  open var onstatechange: ((Event) -> dynamic)?\n  fun postMessage(message: Any?,
transfer: Array<dynamic> = definedExternally)\n}\n\n/*\n * Exposes the JavaScript
[ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to
Kotlin\n\n*\n\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n  open val installing:
ServiceWorker?\n  open val waiting: ServiceWorker?\n  open val active: ServiceWorker?\n  open val scope:
String\n  open var onupdatefound: ((Event) -> dynamic)?\n  open val APISpace: dynamic\n  fun update():
Promise<Unit>\n  fun unregister(): Promise<Boolean>\n  fun showNotification(title: String, options:
NotificationOptions = definedExternally): Promise<Unit>\n  fun getNotifications(filter: GetNotificationOptions =
definedExternally): Promise<Array<Notification>>\n  fun methodName(): Promise<dynamic>\n}\n\n/*\n *
Exposes the JavaScript
[ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n

```

```

*\npublic external abstract class ServiceWorkerContainer : EventTarget {\n  open val controller:
ServiceWorker?\n  open val ready: Promise<ServiceWorkerRegistration>\n  open var oncontrollerchange:
((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n  fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n  fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n  fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n  var scope: String?\n  get() = definedExternally\n  set(value) = definedExternally\n
var type: WorkerType? /* = WorkerType.CLASSIC */\n  get() = definedExternally\n  set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n  val o = js("{}")\n
o["scope"] = scope\n  o["type"] = type\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n */\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n  open val data: Any?\n  open val origin:
String\n  open val lastEventId: String\n  open val source: UnionMessagePortOrServiceWorker?\n  open val
ports: Array<out MessagePort>?\n\n  companion object {\n    val NONE: Short\n    val
CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n  var data: Any?\n  get() =
definedExternally\n  set(value) = definedExternally\n  var origin: String?\n  get() = definedExternally\n
set(value) = definedExternally\n  var lastEventId: String?\n  get() = definedExternally\n  set(value) =
definedExternally\n  var source: UnionMessagePortOrServiceWorker?\n  get() = definedExternally\n
set(value) = definedExternally\n  var ports: Array<MessagePort>?\n  get() = definedExternally\n  set(value)
= definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n  val o =
js("{}")\n  o["data"] = data\n  o["origin"] = origin\n  o["lastEventId"] = lastEventId\n  o["source"] =
source\n  o["ports"] = ports\n  o["bubbles"] = bubbles\n  o["cancelable"] = cancelable\n  o["composed"] =
composed\n  return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n  open val clients:
Clients\n  open val registration: ServiceWorkerRegistration\n  open var oninstall: ((Event) -> dynamic)?\n  open
var onactivate: ((Event) -> dynamic)?\n  open var onfetch: ((FetchEvent) -> dynamic)?\n  open var
onforeignfetch: ((Event) -> dynamic)?\n  open var onmessage: ((MessageEvent) -> dynamic)?\n  open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n  open var onnotificationclose: ((NotificationEvent) ->
dynamic)?\n  open var onfunctionalevent: ((Event) -> dynamic)?\n  fun skipWaiting():
Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n  open val url: String\n  open val frameType: FrameType\n
open val id: String\n  fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
 * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n  open val visibilityState: dynamic\n  open
val focused: Boolean\n  fun focus(): Promise<WindowClient>\n  fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class
Clients {\n  fun get(id: String): Promise<Any?>\n  fun matchAll(options: ClientQueryOptions =
definedExternally): Promise<Array<Client>>\n  fun openWindow(url: String): Promise<WindowClient?>\n  fun
claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n  var includeUncontrolled:

```

```

Boolean? /* = false */\n    get() = definedExternally\n    set(value) = definedExternally\n    var type:
ClientType? /* = ClientType.WINDOW */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled:
Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n    val o = js("{}")\n    o["includeUncontrolled"] = includeUncontrolled\n    o["type"] = type\n    return o\n}\n\n/*\n * Exposes the
JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n
*/\n\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit =
definedExternally) : Event {\n    fun waitUntil(f: Promise<Any?>)\n\n    companion object {\n        val NONE:
Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE:
Short\n    }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@kotlin.internal.InlineOnly\npublic
inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): ExtendableEventInit {\n    val o = js("{}")\n    o["bubbles"] = bubbles\n    o["cancelable"] =
cancelable\n    o["composed"] = composed\n    return o\n}\n\n/*\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n
*/\n\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n    fun
registerForeignFetch(options: ForeignFetchOptions)\n\n    companion object {\n        val NONE: Short\n        val
CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchOptions {\n    var scopes: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var origins: Array<String>?\n    get() =
definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n    val o =
js("{}")\n    o["scopes"] = scopes\n    o["origins"] = origins\n    return o\n}\n\n/*\n * Exposes the JavaScript
[FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n
*/\n\npublic external open class
FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open
val clientId: String?\n    open val isReload: Boolean\n    fun respondWith(r: Promise<Response>)\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n    var
request: Request?\n    get() = definedExternally\n    set(value) = definedExternally\n    var clientId: String? /*
= null */\n    get() = definedExternally\n    set(value) = definedExternally\n    var isReload: Boolean? /* = false
*/\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean?
= false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n    val o = js("{}")\n    o["request"] = request\n    o["clientId"] = clientId\n    o["isReload"] = isReload\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return o\n}\n\npublic external open class
ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request:
Request\n    open val origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n    var
request: Request?\n    get() = definedExternally\n    set(value) = definedExternally\n    var origin: String? /*
= \"null\" */\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request: Request?,
origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ForeignFetchEventInit {\n    val o = js("{}")\n    o["request"] = request\n    o["origin"] = origin\n    o["bubbles"] = bubbles\n    o["cancelable"] = cancelable\n    o["composed"] = composed\n    return
o\n}\n\npublic external interface ForeignFetchResponse {\n    var response: Response?\n    get() =
definedExternally\n    set(value) = definedExternally\n    var origin: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var headers: Array<String>?\n    get() = definedExternally\n    set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response:

```



```

Promise<Array<String>>}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n  companion
object {\n    val NONE: Short\n    val CAPTURING_PHASE: Short\n    val AT_TARGET: Short\n    val
BUBBLING_PHASE: Short\n  }\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface
ServiceWorkerState {\n  companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING:
ServiceWorkerState get() = "installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
"installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
"activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
"activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
"redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface FrameType {\n
companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() =
"auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.TOP_LEVEL:
FrameType get() = "top-level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.NESTED: FrameType get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic
inline val FrameType.Companion.NONE: FrameType get() =
"none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*\n\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external interface ClientType {\n
companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() =
"window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
"sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = "all".asDynamic().unsafeCast<ClientType>()"/**\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport
org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport
org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the
JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n */\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n  open var onloadstart:
((ProgressEvent) -> dynamic)?\n  open var onprogress: ((ProgressEvent) -> dynamic)?\n  open var onabort:
((Event) -> dynamic)?\n  open var onerror: ((Event) -> dynamic)?\n  open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n  open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n  var onreadystatechange: ((Event) ->
dynamic)?\n  open val readyState: Short\n  var timeout: Int\n  var withCredentials: Boolean\n  open val upload:
XMLHttpRequestUpload\n  open val responseURL: String\n  open val status: Short\n  open val statusText:

```



```

String\n    var responseType: XMLHttpRequestResponseType\n    open val response: Any?\n    open val
responseText: String\n    open val responseXML: Document?\n    fun open(method: String, url: String)\n    fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n    fun setRequestHeader(name: String, value: String)\n    fun send(body: dynamic =
definedExternally)\n    fun abort()\n    fun getResponseHeader(name: String): String?\n    fun
getAllResponseHeaders(): String\n    fun overrideMimeType(mime: String)\n\n    companion object {\n        val
UNSENT: Short\n        val OPENED: Short\n        val HEADERS_RECEIVED: Short\n        val LOADING:
Short\n        val DONE: Short\n    }\n\n    /**\n     * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n    */\n    public external open class
FormData(form: HTMLFormElement = definedExternally) {\n        fun append(name: String, value: String)\n        fun
append(name: String, value: Blob, filename: String = definedExternally)\n        fun delete(name: String)\n        fun
get(name: String): dynamic\n        fun getAll(name: String): Array<dynamic>\n        fun has(name: String): Boolean\n        fun
set(name: String, value: String)\n        fun set(name: String, value: Blob, filename: String =
definedExternally)\n    }\n\n    /**\n     * Exposes the JavaScript
[ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n    */\n    public external open
class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n        open val
lengthComputable: Boolean\n        open val loaded: Number\n        open val total: Number\n\n        companion object {\n
            val NONE: Short\n            val CAPTURING_PHASE: Short\n            val AT_TARGET: Short\n            val
BUBBLING_PHASE: Short\n        }\n\n        public external interface ProgressEventInit : EventInit {\n            var
lengthComputable: Boolean? /* = false */\n            get() = definedExternally\n            set(value) = definedExternally\n
            var loaded: Number? /* = 0 */\n            get() = definedExternally\n            set(value) = definedExternally\n
            var total:
Number? /* = 0 */\n            get() = definedExternally\n            set(value) =
definedExternally\n        }\n\n        @kotlin.internal.InlineOnly\n        public inline fun ProgressEventInit(lengthComputable:
Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {\n            val o = js("{}")\n            o["lengthComputable"] =
lengthComputable\n            o["loaded"] = loaded\n            o["total"] = total\n            o["bubbles"] = bubbles\n
            o["cancelable"] = cancelable\n            o["composed"] = composed\n            return o\n        }\n\n        /** please, don't implement this
interface! */\n        @Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n        public external interface
XMLHttpRequestResponseType {\n            companion object\n        }\n\n        public inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
"\n".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n        public inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
"arraybuffer".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n        public inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
"blob".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n        public inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
"document".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n        public inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
"json".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n        public inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
"text".asDynamic().unsafeCast<XMLHttpRequestResponseType>()
"}\n\n    /**\n     * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n     */\n\n    package kotlin\n    import
kotlin.annotation.AnnotationRetention.BINARY\n    import kotlin.annotation.AnnotationRetention.SOURCE\n    import
kotlin.annotation.AnnotationTarget.*\n    import kotlin.internal.RequireKotlin\n    import
kotlin.internal.RequireKotlinVersionKind\n    import kotlin.reflect.KClass\n\n    /**\n     * Signals that the annotated
annotation class is a marker of an experimental API.\n     * Any declaration annotated with that marker is
considered an experimental declaration\n     * 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 deprecated in favor of a more general approach provided by `[RequiresOptIn]/[OptIn]`.

```

@Target(ANNOTATION_CLASS)
@Retention(BINARY)
@SinceKotlin("1.2")
@RequireKotlin("1.2.50",
    versionKind = RequireKotlinVersionKind.COMPILER_VERSION)
@Deprecated("Please use RequiresOptIn instead.")
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 deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].
     *
     * @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)
     * @Deprecated("Please use OptIn instead.", ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))
     public annotation class UseExperimental(
        vararg val markerClass: KClass<out Annotation>)
     *
     * @Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)
     * @Retention(BINARY)
     internal annotation class WasExperimental(
        vararg val markerClass: KClass<out Annotation>)
     *
     * "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 [OptIn] annotation, e.g. @OptIn(ExperimentalStdlibApi::class), or by using the compiler argument -Xopt-in=kotlin.ExperimentalStdlibApi.
     *
     * @Suppress("DEPRECATION")
     * @Experimental(level = Experimental.Level.ERROR)
     * @RequiresOptIn(level = RequiresOptIn.Level.ERROR)
     * @Retention(AnnotationRetention.BINARY)
     * @Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)
     * @MustBeDocumented
     * @ExperimentalStdlibApi
     * @SinceKotlin("1.3") // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4
     public annotation class ExperimentalStdlibApi
     *
     * 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
     *
     * 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
     *
     * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().->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.

```

*\/n@Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n */\n *
Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating
that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the
compiler argument `-Xopt-in=kotlin.ExperimentalMultiplatform`.\n
*/\n@Suppress("DEPRECATION")\n@Experimental\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n
TYPEALIAS)\n\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n/**\n *
Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n */\n *
This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as
`optional`.\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on that platform.\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on
how to opt-in for it.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n@RequireKotlin("1.2.50", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic
annotation class OptionalExpectation\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n */\n * Call sites of any declaration annotated
with that marker should opt in to the API either by using [OptIn],\n * or by being annotated with that marker
themselves, effectively causing further propagation of the opt-in requirement.\n * This class requires opt-in itself
and can only be used with the compiler argument `-Xopt-in=kotlin.RequiresOptIn`.\n * @property message
message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n *
The default message is: `This declaration is experimental and its usage should be marked with 'Marker`\n *
or '@OptIn(Marker::class)`", where `Marker` is the opt-in requirement marker.\n * @property level specifies
how usages of API without an explicit opt-in are reported in code.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin("1.3")\n@RequireKotlin("1.3.70
", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n
val message: String = "",\n val level: Level = Level.ERROR)\n {\n /**\n * Severity of the diagnostic that
should be reported on usages which did not explicitly opt into\n * the API either by using [OptIn] or by being
annotated with the corresponding marker annotation.\n */\n public enum class Level {\n /** Specifies that a
warning should be reported on incorrect usages of this API. */\n WARNING,\n /** Specifies that an error
should be reported on incorrect usages of this API. */\n ERROR,\n }\n\n /**\n * Allows to use the API
denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with

```

[OptIn], its usages are **not** required to opt in to that API.

```

 * This class requires opt-in itself and can only be
 used with the compiler argument -Xopt-in=kotlin.RequiresOptIn.
 @Target(CLASS, PROPERTY,
 LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER,
 PROPERTY_SETTER, EXPRESSION, FILE,
 TYPEALIAS)
 @Retention(SOURCE)
 @SinceKotlin("1.3")
 @RequireKotlin("1.3.70", versionKind =
 RequireKotlinVersionKind.COMPILER_VERSION)
 public annotation class OptIn(
 vararg val markerClass:
 KClass<out Annotation>)
 */
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 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.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) } // use when js will support bound refs:
 elements.all(this::contains)
 override fun
 isEmpty(): Boolean = size == 0
 override fun toString(): String = joinToString(", ", "[", "]")
 if (it
 == this) "(this Collection)" else it.toString()
 }
 /**
 * Returns new array of type `Array<Any?>` with
 the elements of this collection.
 @JsName("toArray")
 protected open fun toArray(): Array<Any?> =
 copyToArrayImpl(this)
 /**
 * Fills the provided [array] or creates new array of the same type
 * and
 fills it with the elements of this collection.
 @protected open fun <T> toArray(array: Array<T>): Array<T>
 = copyToArrayImpl(this, array)
 */
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 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.collections
 private enum class State {
 Ready,
 NotReady,
 Done,
 Failed
 }
 /**
 * A base class to simplify implementing iterators so that
 implementations only have to implement [computeNext]
 * to implement the iterator, calling [done] when the
 iteration is complete.
 @public abstract class AbstractIterator<T> : Iterator<T> {
 private var state =
 State.NotReady
 private var nextValue: T? = null
 override fun hasNext(): Boolean {
 require(state !=
 State.Failed)
 return when (state) {
 State.Done -> false
 State.Ready -> true
 else ->
 tryToComputeNext()
 }
 }
 override fun next(): T {
 if (!hasNext()) throw
 NoSuchElementException()
 state = State.NotReady
 @Suppress("UNCHECKED_CAST")
 return nextValue as T
 }
 private fun tryToComputeNext(): Boolean {
 state = State.Failed
 computeNext()
 return state == State.Ready
 }
 /**
 * Computes the next item in the iterator.
 *
 * This callback method should call one of these two methods:
 * * [setNext] with the next value of
 the iteration
 * * [done] to indicate there are no more elements
 *
 * Failure to call either method will
 result in the iteration terminating with a failed state
 @abstract protected fun computeNext(): Unit
 /**
 * Sets the next value in the iteration, called from the [computeNext] function
 @protected fun
 setNext(value: T): Unit {
 nextValue = value
 state = State.Ready
 }
 /**
 * Sets the state to
 done so that the iteration terminates.
 @protected fun done() {
 state = State.Done
 }
 */
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 is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
 * Based on GWT
 AbstractList
 * Copyright 2007 Google Inc.
 package kotlin.collections
 */
 * Provides a skeletal
 implementation of the read-only [List] interface.
 * This class is intended to help implementing read-only lists
 so it doesn't support concurrent modification tracking.
 @param E the type of elements contained in the list.
 The list is covariant on its element type.
 @SinceKotlin("1.1")
 public abstract class AbstractList<out E>
 protected constructor() : AbstractCollection<E>(), List<E> {
 abstract override val size: Int
 abstract override
 fun get(index: Int): E
 override fun iterator(): Iterator<E> = IteratorImpl()
 override fun indexOf(element:
 @UnsafeVariance E): Int = indexOfFirst { it == element }
 override fun lastIndexOf(element:
 @UnsafeVariance E): Int = indexOfLast { it == element }
 override fun listIterator(): ListIterator<E> =

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ListIteratorImpl(0)\n\n    override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n    private class
SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),
RandomAccess {\n    private var _size: Int = 0\n\n    init {\n        checkRangeIndexes(fromIndex, toIndex,
list.size)\n        this._size = toIndex - fromIndex\n    }\n\n    override fun get(index: Int): E {\n
checkElementIndex(index, _size)\n        return list[fromIndex + index]\n    }\n\n    override val size: Int
get() = _size\n    }\n\n    /**\n     * Compares this list with other list instance with the ordered structural equality.\n
*\n     * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same
order.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is
List<*>) return false\n\n        return orderedEquals(this, other)\n    }\n\n    /**\n     * Returns the hash code value for
this list.\n     */\n    override fun hashCode(): Int = orderedHashCode(this)\n\n    private open inner class IteratorImpl
: Iterator<E> {\n        /** the index of the item that will be returned on the next call to [next]`() ` */\n        protected
var index = 0\n\n        override fun hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if
(!hasNext()) throw NoSuchElementException()\n            return get(index++)\n        }\n    }\n\n    /**\n     *
Implementation of [ListIterator] for abstract lists.\n     */\n    private open inner class ListIteratorImpl(index: Int) :
IteratorImpl(), ListIterator<E> {\n\n        init {\n            checkPositionIndex(index, this@AbstractList.size)\n
this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun
nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious()) throw
NoSuchElementException()\n            return get(--index)\n        }\n\n        override fun previousIndex(): Int = index -
1\n    }\n\n    internal companion object {\n        internal fun checkElementIndex(index: Int, size: Int) {\n            if
(index < 0 || index >= size) {\n                throw IndexOutOfBoundsException("index: $index, size: $size")\n            }\n
        }\n\n        internal fun checkPositionIndex(index: Int, size: Int) {\n            if (index < 0 || index > size) {\n
                throw IndexOutOfBoundsException("index: $index, size: $size")\n            }\n        }\n\n        internal fun
checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n            if (fromIndex < 0 || toIndex > size) {\n
                throw IndexOutOfBoundsException("fromIndex: $fromIndex, toIndex: $toIndex, size: $size")\n            }\n
            if (fromIndex > toIndex) {\n                throw IllegalArgumentException("fromIndex: $fromIndex > toIndex:
$toIndex")\n            }\n        }\n\n        internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n
            if (startIndex < 0 || endIndex > size) {\n                throw IndexOutOfBoundsException("startIndex:
$startIndex, endIndex: $endIndex, size: $size")\n            }\n            if (startIndex > endIndex) {\n                throw
IllegalArgumentException("startIndex: $startIndex > endIndex: $endIndex")\n            }\n        }\n\n        internal
fun orderedHashCode(c: Collection<*>): Int {\n            var hashCode = 1\n            for (e in c) {\n
                hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n            }\n            return hashCode\n        }\n\n        internal fun
orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n            if (c.size != other.size) return false\n\n
            val otherIterator = other.iterator()\n            for (elem in c) {\n                val elemOther = otherIterator.next()\n
                if (elem != elemOther) {\n                    return false\n                }\n            }\n            return true\n        }\n
    }\n\n    /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     */\n\n    *
Based on GWT AbstractMap\n    * Copyright 2007 Google Inc.\n    */\n\n    package kotlin.collections\n\n    /**\n     * Provides
a skeletal implementation of the read-only [Map] interface.\n     */\n\n    /**\n     * The implementor is required to implement
[entries] property, which should return read-only set of map entries.\n     */\n\n    /**\n     * @param K the type of map keys. The
map is invariant on its key type.\n     */\n\n    /**\n     * @param V the type of map values. The map is covariant on its value type.\n
     */\n\n    @SinceKotlin("1.1")\n    public abstract class AbstractMap<K, out V> protected constructor() : Map<K, V>
{\n\n        override fun containsKey(key: K): Boolean {\n            return implFindEntry(key) != null\n        }\n\n        override
fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n        internal fun
containsEntry(entry: Map.Entry<*, *>?): Boolean {\n            // since entry comes from @UnsafeVariance parameters it
can be virtually anything\n            if (entry !is Map.Entry<*, *>) return false\n            val key = entry.key\n            val value
= entry.value\n            val ourValue = get(key)\n            if (value != ourValue) {\n                return false\n            }\n            //
Perhaps it was null and we don't contain the key?\n            if (ourValue == null && !containsKey(key)) {\n

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return false\n    }\n\n    return true\n    }\n\n\n    /**\n     * Compares this map with other instance with the
ordered structural equality.\n     *\n     * @return true, if [other] instance is a [Map] of the same size, all entries of
which are contained in the [entries] set of this map.\n     *\n     * override fun equals(other: Any?): Boolean {\n     *     if
(other === this) return true\n     *     if (other !is Map<*, *>) return false\n     *     if (size != other.size) return false\n     *     return other.entries.all { containsEntry(it) }\n     * }\n\n     * override operator fun get(key: K): V? =
implFindEntry(key)?.value\n\n\n     /**\n     * Returns the hash code value for this map.\n     *\n     * It is the same as
the hashCode of [entries] set.\n     *\n     * override fun hashCode(): Int = entries.hashCode()\n\n     * override fun
isEmpty(): Boolean = size == 0\n     * override val size: Int get() = entries.size\n\n     /**\n     * Returns a read-only
[Set] of all keys in this map.\n     *\n     * Accessing this property first time creates a keys view from [entries].\n     *
All subsequent accesses just return the created instance.\n     *\n     * override val keys: Set<K>\n     *     get() {\n
if (_keys == null) {\n     *         _keys = object : AbstractSet<K>() {\n     *             override operator fun
contains(element: K): Boolean = containsKey(element)\n     *             override operator fun iterator(): Iterator<K>
{\n     *                 val entryIterator = entries.iterator()\n     *                 return object : Iterator<K> {\n
override fun hasNext(): Boolean = entryIterator.hasNext()\n     *                 override fun next(): K =
entryIterator.next().key\n     *                 }\n     *             }\n     *             override val size: Int get() =
this@AbstractMap.size\n     *         }\n     *     }\n     *     return _keys!!\n     * }\n\n     * @kotlin.jvm.Volatile\n
private var _keys: Set<K>? = null\n\n     * override fun toString(): String = entries.joinToString(", ", "\n", "\n") {\n
toString(it) }\n     * private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" +
toString(entry.value)\n     * private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()\n\n
     /**\n     * Returns a read-only [Collection] of all values in this map.\n     *\n     * Accessing this property first time
creates a values view from [entries].\n     * All subsequent accesses just return the created instance.\n     *\n     *
override val values: Collection<V>\n     *     get() {\n     *         if (_values == null) {\n     *             _values = object :
AbstractCollection<V>() {\n     *                 override operator fun contains(element: @UnsafeVariance V): Boolean =
containsValue(element)\n     *                 override operator fun iterator(): Iterator<V> {\n     *                     val
entryIterator = entries.iterator()\n     *                     return object : Iterator<V> {\n     *                         override fun
hasNext(): Boolean = entryIterator.hasNext()\n     *                         override fun next(): V = entryIterator.next().value\n
     *                     }\n     *                 }\n     *                 override val size: Int get() = this@AbstractMap.size\n     *
     *             }\n     *             return _values!!\n     *         }\n     *     }\n     *     @kotlin.jvm.Volatile\n
private var _values: Collection<V>? = null\n\n     * private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n     * internal
companion object {\n     *     internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?:
0) xor (value?.hashCode() ?: 0) }\n     *     internal fun entryToString(e: Map.Entry<*, *>): String = with(e) {\n
"$key=$value" }\n     *     internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n     *         if (other !is
Map.Entry<*, *>) return false\n     *         return e.key == other.key && e.value == other.value\n     *     }\n     * }\n\n     * }\n\n     * ,"/*\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n     *
/\n     * package kotlin.collections\n\n     /**\n     * Provides a skeletal implementation of the read-only [Set] interface.\n     *\n     * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n     *
     *\n     * @param E the type of elements contained in the set. The set is covariant on its element type.\n     *
     *\n     * @since Kotlin("1.1")\n     * public abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n     *     /**\n     *     * Compares this set with other set instance with the unordered
structural equality.\n     *     *\n     *     * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n     *     *\n     *     * override fun equals(other: Any?): Boolean {\n     *     *     if (other === this) return true\n     *     *     if (other !is Set<*>) return false\n     *     *     return setEquals(this, other)\n     *     * }\n     *     /**\n     *     * Returns the hash code
value for this set.\n     *     *\n     *     * override fun hashCode(): Int = unorderedHashCode(this)\n\n     *     * internal companion
object {\n     *     *     internal fun unorderedHashCode(c: Collection<*>): Int {\n     *     *         var hashCode = 0\n     *     *         for
(element in c) {\n     *     *             hashCode += (element?.hashCode() ?: 0)\n     *     *         }\n     *     *         return hashCode\n
     *     * }\n     *     * internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n     *     *         if (c.size != other.size) return false\n
     *     *         return c.containsAll(other)\n     *     * }\n     *     * }\n     *     }\n\n     * ,"/*\n     * Copyright 2010-2019 JetBrains s.r.o. and Kotlin

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Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *^\npackage kotlin.collections\nimport
kotlin.native.concurrent.SharedImmutable\n@SharedImmutable\nprivate val emptyElementData =
emptyArray<Any?>()\nprivate const val maxArraySize = Int.MAX_VALUE - 8\nprivate const val
defaultMinCapacity = 10\n/**\n * Resizable-array implementation of the deque data structure.\n *\n * The name
deque is short for "double ended queue" and is usually pronounced "deck".\n *\n * The collection provide
methods for convenient access to the both ends.\n *\n * It also implements [MutableList] interface and supports efficient
get/set operations by index.\n *^\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n    private var head: Int = 0\n    private var elementData: Array<Any?>\n    override
var size: Int = 0\n    private set\n    /**\n     * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.\n     *^\n     public constructor(initialCapacity:
Int) {\n         elementData = when {\n             initialCapacity == 0 -> emptyElementData\n             initialCapacity > 0 -
> arrayOfNulls(initialCapacity)\n             else -> throw IllegalArgumentException("Illegal Capacity:
$initialCapacity")\n         }\n     }\n    /**\n     * Constructs an empty deque.\n     *^\n     public constructor() {\n
elementData = emptyElementData\n     }\n    /**\n     * Constructs a deque that contains the same elements as the
specified [elements] collection in the same order.\n     *^\n     public constructor(elements: Collection<E>) {\n
elementData = elements.toArray()\n         size = elementData.size\n         if (elementData.isEmpty())\n         elementData = emptyElementData\n     }\n    /**\n     * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].\n     *\n     * If the current capacity is less than the [minCapacity], a new backing
storage is allocated with greater capacity.\n     * Otherwise, this method takes no action and simply returns.\n     *^\n
private fun ensureCapacity(minCapacity: Int) {\n    if (minCapacity < 0) throw IllegalStateException("Deque is
too big.") // overflow\n    if (minCapacity <= elementData.size) return\n    if (elementData ===
emptyElementData) {\n        elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n
return\n    }\n    val newCapacity = newCapacity(elementData.size, minCapacity)\n
copyElements(newCapacity)\n }\n    // made internal for testing\n    internal fun newCapacity(oldCapacity: Int,
minCapacity: Int): Int {\n        // overflow-conscious\n        var newCapacity = oldCapacity + (oldCapacity shr 1)\n
if (newCapacity - minCapacity < 0)\n            newCapacity = minCapacity\n        if (newCapacity - maxArraySize >
0)\n            newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n        return
newCapacity\n    }\n    /**\n     * Creates a new array with the specified [newCapacity] size and copies elements in
the [elementData] array to it.\n     *^\n    private fun copyElements(newCapacity: Int) {\n        val newElements =
arrayOfNulls<Any?>(newCapacity)\n        elementData.copyInto(newElements, 0, head, elementData.size)\n
elementData.copyInto(newElements, elementData.size - head, 0, head)\n        head = 0\n        elementData =
newElements\n    }\n    @kotlin.internal.InlineOnly\n    private inline fun internalGet(internalIndex: Int): E {\n
@Suppress("UNCHECKED_CAST")\n        return elementData[internalIndex] as E\n    }\n    private fun
positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index\n    private fun
negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index\n\n    @kotlin.internal.InlineOnly\n    private inline fun internalIndex(index: Int): Int = positiveMod(head + index)\n\n    private fun
incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1\n    private fun
decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1\n    override fun isEmpty():
Boolean = size == 0\n    /**\n     * Returns the first element, or throws [NoSuchElementException] if this deque is
empty.\n     *^\n     public fun first(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(head)\n    /**\n     * Returns the first element, or `null` if this deque is empty.\n     *^\n     public
fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)\n    /**\n     * Returns the last element, or throws
[NoSuchElementException] if this deque is empty.\n     *^\n     public fun last(): E = if (isEmpty()) throw
NoSuchElementException("ArrayDeque is empty.") else internalGet(internalIndex(lastIndex))\n    /**\n     *
Returns the last element, or `null` if this deque is empty.\n     *^\n     public fun lastOrNull(): E? = if (isEmpty()) null
else internalGet(internalIndex(lastIndex))\n    /**\n     * Prepends the specified [element] to this deque.\n     *^\n
public fun addFirst(element: E) {\n        ensureCapacity(size + 1)\n        head = decremented(head)\n

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elementData[head] = element\n    size += 1\n    }\n\n    /**\n     * Appends the specified [element] to this deque.\n     *\n     * public fun addLast(element: E) {\n     ensureCapacity(size + 1)\n     elementData[internalIndex(size)] =
element\n    size += 1\n    }\n\n    /**\n     * Removes the first element from this deque and returns that removed
element, or throws [NoSuchElementException] if this deque is empty.\n     *\n     * public fun removeFirst(): E {\n
if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n     val element =
internalGet(head)\n     elementData[head] = null\n     head = incremented(head)\n     size -= 1\n     return
element\n    }\n\n    /**\n     * Removes the first element from this deque and returns that removed element, or
returns `null` if this deque is empty.\n     *\n     * public fun removeFirstOrNull(): E? = if (isEmpty()) null else
removeFirst()\n\n    /**\n     * Removes the last element from this deque and returns that removed element, or
throws [NoSuchElementException] if this deque is empty.\n     *\n     * public fun removeLast(): E {\n     if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")\n     val internalLastIndex =
internalIndex(lastIndex)\n     val element = internalGet(internalLastIndex)\n     elementData[internalLastIndex] =
null\n     size -= 1\n     return element\n    }\n\n    /**\n     * Removes the last element from this deque and returns
that removed element, or returns `null` if this deque is empty.\n     *\n     * public fun removeLastOrNull(): E? = if
(isEmpty()) null else removeLast()\n\n    // MutableList, MutableCollection\n    public override fun add(element: E):
Boolean {\n     addLast(element)\n     return true\n    }\n\n    public override fun add(index: Int, element: E) {\n
AbstractList.checkPositionIndex(index, size)\n     if (index == size) {\n     addLast(element)\n
return\n    } else if (index == 0) {\n     addFirst(element)\n     return\n    }\n     ensureCapacity(size
+ 1)\n\n     // Elements in circular array lay in 2 ways:\n     // 1. `head` is less than `tail`:    [#, #, e1, e2, e3,
#]\n     // 2. `head` is greater than `tail`:    [e3, #, #, #, e1, e2]\n     // where head is the index of the first element
in the circular array,\n     // and tail is the index following the last element.\n     /\n     // At this point the
insertion index is not equal to head or tail.\n     // Also the circular array can store at least one more element.\n
/\n     // Depending on where the given element must be inserted the preceding or the succeeding\n     // elements
will be shifted to make room for the element to be inserted.\n     /\n     // In case the preceding elements are
shifted:\n     // * if the insertion index is greater than the head (regardless of circular array form)\n     // ->
shift the preceding elements\n     // * otherwise, the circular array has (2) form and the insertion index is less than
tail\n     // -> shift all elements in the back of the array\n     // -> shift preceding elements in the front of the
array\n     // In case the succeeding elements are shifted:\n     // * if the insertion index is less than the tail
(regardless of circular array form)\n     // -> shift the succeeding elements\n     // * otherwise, the circular
array has (2) form and the insertion index is greater than head\n     // -> shift all elements in the front of the
array\n     // -> shift succeeding elements in the back of the array\n     val internalIndex =
internalIndex(index)\n     if (index < (size + 1) shr 1) {\n     // closer to the first element -> shift preceding
elements\n     val decrementedInternalIndex = decremented(internalIndex)\n     val decrementedHead =
decremented(head)\n     if (decrementedInternalIndex >= head) {\n     elementData[decrementedHead]
= elementData[head] // head can be zero\n     elementData.copyInto(elementData, head, head + 1,
decrementedInternalIndex + 1)\n     } else { // head > tail\n     elementData.copyInto(elementData, head -
1, head, elementData.size) // head can't be zero\n     elementData[elementData.size - 1] = elementData[0]\n
     elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n     }\n     }\n     elementData[decrementedInternalIndex] = element\n     head = decrementedHead\n     } else {\n     //
closer to the last element -> shift succeeding elements\n     val tail = internalIndex(size)\n     if
(internalIndex < tail) {\n     elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n
} else { // head > tail\n     elementData.copyInto(elementData, 1, 0, tail)\n     elementData[0] =
elementData[elementData.size - 1]\n     elementData.copyInto(elementData, internalIndex + 1, internalIndex,
elementData.size - 1)\n     }\n     elementData[internalIndex] = element\n     }\n     size += 1\n     }\n\n
private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n     val iterator =
elements.iterator()\n     for (index in internalIndex until elementData.size) {\n     if (!iterator.hasNext())
break\n     elementData[index] = iterator.next()\n     }\n     for (index in 0 until head) {\n     if
(!iterator.hasNext()) break\n     elementData[index] = iterator.next()\n     }\n     size += elements.size\n

```



```

}\n\n public override fun addAll(elements: Collection<E>): Boolean {\n    if (elements.isEmpty()) return false\n    ensureCapacity(this.size + elements.size)\n    copyCollectionElements(internalIndex(size), elements)\n    return true\n }\n\n public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n    AbstractList.checkPositionIndex(index, size)\n    if (elements.isEmpty()) {\n        return false\n    } else if (index == size) {\n        return addAll(elements)\n    }\n    ensureCapacity(this.size + elements.size)\n    val tail = internalIndex(size)\n    val internalIndex = internalIndex(index)\n    val elementsSize = elements.size\n    if (index < (size + 1) shr 1) {\n        // closer to the first element -> shift preceding elements\n        var shiftedHead = head - elementsSize\n        if (internalIndex >= head) {\n            if (shiftedHead >= 0) {\n                elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n            } else { // head < tail, insertion leads to head >= tail\n                shiftedHead += elementData.size\n                val elementsToShift = internalIndex - head\n                val shiftToBack = elementData.size - shiftedHead\n                if (shiftToBack >= elementsToShift) {\n                    elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n                } else {\n                    elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n                    elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n                }\n            } else { // head > tail, internalIndex < tail\n                elementData.copyInto(elementData, shiftedHead, head, elementData.size)\n                if (elementsSize >= internalIndex) {\n                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n                } else {\n                    elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n                    elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n                }\n            }\n            head = shiftedHead\n            copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n        } else {\n            // closer to the last element -> shift succeeding elements\n            val shiftedInternalIndex = internalIndex + elementsSize\n            if (internalIndex < tail) {\n                if (tail + elementsSize <= elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n                } else { // head < tail, insertion leads to head >= tail\n                    if (shiftedInternalIndex >= elementData.size)\n                    {\n                        elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n                    }\n                } else {\n                    val shiftToFront = tail + elementsSize - elementData.size\n                    elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n                    elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail - shiftToFront)\n                }\n            } else { // head > tail, internalIndex > head\n                elementData.copyInto(elementData, elementsSize, 0, tail)\n                if (shiftedInternalIndex >= elementData.size) {\n                    elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, elementData.size)\n                } else {\n                    elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n                    elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n                }\n            }\n        }\n        copyCollectionElements(internalIndex, elements)\n    }\n    return true\n }\n\n public override fun get(index: Int): E {\n    AbstractList.checkElementIndex(index, size)\n    return internalGet(internalIndex(index))\n }\n\n public override fun set(index: Int, element: E): E {\n    AbstractList.checkElementIndex(index, size)\n    val internalIndex = internalIndex(index)\n    val oldElement = internalGet(internalIndex)\n    elementData[internalIndex] = element\n    return oldElement\n }\n\n public override fun contains(element: E): Boolean = indexOf(element) != -1\n\n public override fun indexOf(element: E): Int {\n    val tail = internalIndex(size)\n    if (head < tail) {\n        for (index in head until tail) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if (head >= tail) {\n        for (index in head until elementData.size) {\n            if (element == elementData[index]) return index - head\n        }\n    }\n    for (index in 0 until tail) {\n        if (element == elementData[index]) return index + elementData.size - head\n    }\n    return -1\n }\n\n public override fun lastIndexOf(element: E): Int {\n    val tail = internalIndex(size)\n    if (head < tail) {\n        for (index in tail - 1 downTo head) {\n            if (element == elementData[index]) return index - head\n        }\n    } else if (head > tail) {\n        for (index in tail - 1 downTo 0) {\n            if (element == elementData[index]) return index + elementData.size - head\n        }\n    }\n    for (index in elementData.lastIndex downTo head) {\n

```

```

if (element == elementData[index]) return index - head\n    }\n    }\n    return -1\n }\n\n public
override fun remove(element: E): Boolean {\n    val index = indexOf(element)\n    if (index == -1) return
false\n    removeAt(index)\n    return true\n }\n\n public override fun removeAt(index: Int): E {\n
AbstractList.checkElementIndex(index, size)\n\n    if (index == lastIndex) {\n        return removeLast()\n    }
else if (index == 0) {\n        return removeFirst()\n    }\n\n    val internalIndex = internalIndex(index)\n
val element = internalGet(internalIndex)\n\n    if (index < size shr 1) {\n        // closer to the first element ->
shift preceding elements\n        if (internalIndex >= head) {\n            elementData.copyInto(elementData, head
+ 1, head, internalIndex)\n        } else { // head > tail, internalIndex < head\n
elementData.copyInto(elementData, 1, 0, internalIndex)\n            elementData[0] = elementData[elementData.size
- 1]\n            elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n        }\n\n
elementData[head] = null\n        head = incremented(head)\n    } else {\n        // closer to the last element ->
shift succeeding elements\n        val internalLastIndex = internalIndex(lastIndex)\n\n        if (internalIndex <=
internalLastIndex) {\n            elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n        } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n            elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n        }\n\n        elementData[internalLastIndex] = null\n    }\n    size -= 1\n\n
return element\n }\n\n public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n\n public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n\n private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n    if
(this.isEmpty() || elementData.isEmpty())\n        return false\n\n    val tail = internalIndex(size)\n    var
newTail = head\n    var modified = false\n\n    if (head < tail) {\n        for (index in head until tail) {\n
val element = elementData[index]\n\n            @Suppress(\"UNCHECKED_CAST\")\n            if
(predicate(element as E))\n                elementData[newTail++] = element\n            else\n                modified =
true\n        }\n\n        elementData.fill(null, newTail, tail)\n    } else {\n        for (index in head until
elementData.size) {\n            val element = elementData[index]\n            elementData[index] = null\n\n
@Suppress(\"UNCHECKED_CAST\")\n            if (predicate(element as E))\n                elementData[newTail++] = element\n
            else\n                modified = true\n        }\n\n        newTail =
positiveMod(newTail)\n\n        for (index in 0 until tail) {\n            val element = elementData[index]\n
elementData[index] = null\n\n            @Suppress(\"UNCHECKED_CAST\")\n            if (predicate(element as
E)) {\n                elementData[newTail] = element\n                newTail = incremented(newTail)\n            }
else {\n                modified = true\n            }\n        }\n\n        if (modified)\n            size =
negativeMod(newTail - head)\n\n        return modified\n    }\n\n public override fun clear() {\n    val tail =
internalIndex(size)\n    if (head < tail) {\n        elementData.fill(null, head, tail)\n    } else if (isEmpty())
{\n        elementData.fill(null, head, elementData.size)\n        elementData.fill(null, 0, tail)\n    }\n    head =
0\n    size = 0\n }\n\n // For testing only\n internal fun internalStructure(structure: (head: Int, elements:
Array<Any?>) -> Unit) {\n    val tail = internalIndex(size)\n\n    if (isEmpty()) {\n        structure(head,
emptyArray())\n        return\n    }\n\n    val elements = arrayOfNulls<Any?>(size)\n    if (head < tail) {\n
elementData.copyInto(elements, startIndex = head, endIndex = tail)\n        structure(head, elements)\n    }
else {\n        elementData.copyInto(elements, startIndex = head)\n        elementData.copyInto(elements,
elementData.size - head, startIndex = 0, endIndex = tail)\n        structure(head - elementData.size, elements)\n
}\n    }\n\n } * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n @file:kotlin.jvm.JvmMultifileClass\n @file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n\npackage
kotlin.collections\n\nimport kotlin.contracts.*\n\n\n/**\n * Returns a single list of all elements from all arrays in the
given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n * ^\n\npublic fun <T> Array<out
Array<out T>>.flatten(): List<T> {\n    val result = ArrayList<T>(sumBy { it.size })\n    for (element in this) {\n
result.addAll(element)\n    }\n    return result\n }\n\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from

```

```

the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this
array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out
Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>(size)\n    val listR =
ArrayList<R>(size)\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return
listT to listR}\n}\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample
samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean
{\n    contract {\n        returns(false) implies (this@isNullOrEmpty != null)\n    }\n    return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if
the array is empty.\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n
*/\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("UPPER_BOUND_CANNOT_BE_ARRAY")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n    if (isEmpty())
defaultValue() else
this\n}\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin
in.jvm.JvmName("contentDeepEquals")\n@kotlin.js.JsName("contentDeepEqualsImpl")\ninternal fun <T>
Array<out T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\n    if (this === other) return true\n    if
(this.size != other.size) return false\n    for (i in indices) {\n        val v1 = this[i]\n        val v2 = other[i]\n        if
(v1 === v2) {\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n        }\n        when {\n            v1 is Array<*> && v2 is Array<*> -> if (!v1.contentDeepEquals(v2)) return false\n            v1
is ByteArray && v2 is ByteArray -> if (!v1.contentEquals(v2)) return false\n            v1 is ShortArray && v2 is
ShortArray -> if (!v1.contentEquals(v2)) return false\n            v1 is IntArray && v2 is IntArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is LongArray && v2 is LongArray -> if (!v1.contentEquals(v2))
return false\n            v1 is FloatArray && v2 is FloatArray -> if (!v1.contentEquals(v2)) return false\n            v1
is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n            v1 is CharArray && v2
is CharArray -> if (!v1.contentEquals(v2)) return false\n            v1 is BooleanArray && v2 is BooleanArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is UByteArray && v2 is UByteArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is UShortArray && v2 is UShortArray -> if
(!v1.contentEquals(v2)) return false\n            v1 is UIntArray && v2 is UIntArray -> if (!v1.contentEquals(v2))
return false\n            v1 is ULongArray && v2 is ULongArray -> if (!v1.contentEquals(v2)) return false\n        }\n        else -> if (v1 != v2) return false\n    }\n}\n}\n}\n\ntrue\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>.contentDeepToStringImpl(): String {\n    val
length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n    return
buildString(length) {\n        contentDeepToStringInternal(this, mutableListOf())\n    }\n}\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n    if (this in
processed) {\n        result.append("[...]")\n        return\n    }\n    processed.add(this)\n    result.append("[")\n    for (i
in indices) {\n        if (i != 0) {\n            result.append(", ")\n        }\n        val element = this[i]\n        when
(element) {\n            null -> result.append("null")\n            is Array<*> ->
element.contentDeepToStringInternal(result, processed)\n            is ByteArray ->
result.append(element.contentToString())\n            is ShortArray -> result.append(element.contentToString())\n
            is IntArray -> result.append(element.contentToString())\n            is LongArray ->
result.append(element.contentToString())\n            is FloatArray -> result.append(element.contentToString())\n
            is DoubleArray -> result.append(element.contentToString())\n            is CharArray ->
result.append(element.contentToString())\n            is BooleanArray -> result.append(element.contentToString())\n
            is UByteArray -> result.append(element.contentToString())\n            is UShortArray ->
result.append(element.contentToString())\n            is UIntArray -> result.append(element.contentToString())\n
            is ULongArray -> result.append(element.contentToString())\n            else ->

```

```

result.append(element.toString())\n    }\n }\n result.append('')\n
processed.removeAt(processed.lastIndex)\n}", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a
collection or sequence, along with its index in that collection or sequence.\n *\n * @property value the underlying
value.\n * @property index the index of the value in the collection or sequence.\n */\n\npublic data class
IndexedValue<out T>(public val index: Int, public val value: T)\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage
kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of
the property for the given object from this read-only map.\n * @param thisRef the object for which the value is
requested (not used).\n * @param property the metadata for the property, used to get the name of property and
lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws
NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit
default (see [withDefault]).\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in
String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n
@Suppress("UNCHECKED_CAST") (getOrNullImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value
of the property for the given object from this mutable map.\n * @param thisRef the object for which the value is
requested (not used).\n * @param property the metadata for the property, used to get the name of property and
lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws
NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit
default (see [withDefault]).\n */\n\n@kotlin.jvm.JvmName("getVar")\n@kotlin.internal.InlineOnly\npublic inline
operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property:
KProperty<*>): V1 =\n    @Suppress("UNCHECKED_CAST") (getOrNullImplicitDefault(property.name) as
V1)\n\n@Deprecated("Use getValue() with two type parameters instead", level =
DeprecationLevel.ERROR)\n@kotlin.jvm.JvmName("getVarContravariant")\n@kotlin.internal.LowPriorityInOver
loadResolution\n@kotlin.internal.InlineOnly\npublic inline fun <V> MutableMap<in String, in
V>.getValue(thisRef: Any?, property: KProperty<*>): V =\n    @Suppress("UNCHECKED_CAST")
(getOrNullImplicitDefault(property.name) as V)\n\n/**\n * Stores the value of the property for the given object in this
mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the
metadata for the property, used to get the name of property and store the value associated with that name in the
map.\n * @param value the value to set.\n */\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n
this.put(property.name, value)\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MapsKt")\n\npackage
kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By
default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with
implicit default value use [withDefault] method.\n *\n * @throws NoSuchElementException when the map doesn't
contain a value for the specified key and no implicit default was provided for that map.\n
*/\n\n@kotlin.jvm.JvmName("getOrNullImplicitDefaultNullable")\n@PublishedApi\ninternal fun <K, V> Map<K,
V>.getOrNullImplicitDefault(key: K): V {\n    if (this is MapWithDefault)\n        return
this.getOrNullImplicitDefault(key)\n    return getOrNullNullable(key, { throw NoSuchElementException("Key $key
is missing in the map.") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value
provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original
map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for
example when properties are delegated to the map.\n *\n * When this map already has an implicit default value

```

provided with a former call to [withDefault], it is being replaced by this call.

```


public fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =
    when (this) {
        is MapWithDefault -> this.map.withDefault(defaultValue)
        else -> MapWithDefaultImpl(this, defaultValue)
    }


```

* Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].

* This implicit default value is used when the original map doesn't contain a value for the key specified and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.

* When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.

```


@kotlin.jvm.JvmName("withDefaultMutable")
public fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =
    when (this) {
        is MutableMapWithDefault -> this.map.withDefault(defaultValue)
        else -> MutableMapWithDefaultImpl(this, defaultValue)
    }


```

private interface MapWithDefault<K, out V> : Map<K, V> {
 public val map: Map<K, V>
 public fun getOrImplicitDefault(key: K): V
}

private interface MutableMapWithDefault<K, V> : MutableMap<K, V>, MapWithDefault<K, V> {
 public override val map: MutableMap<K, V>
}

private class MapWithDefaultImpl<K, out 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 get(key: K): V? = map.get(key)
 override val keys: Set<K> get() = map.keys
 override val values: Collection<V> get() = map.values
 override val entries: Set<Map.Entry<K, V>> get() = map.entries
 override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })
}

private class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<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 get(key: K): V? = map.get(key)
 override val keys: MutableSet<K> get() = map.keys
 override val values: MutableCollection<V> get() = map.values
 override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries
 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>) = 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 <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<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.

```


@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)


```

* Retains only the elements in this collection that are contained in the specified collection.

* Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.

```

@return `true` if any element was removed from the collection, `false` if the collection was not modified.
*/
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =
    @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).retainAll(elements)
*/
**
* Adds the specified [element] to this mutable collection.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {
    this.add(element)
}
**
* Adds all elements of the given [elements] collection to this mutable collection.
*/
@kotlin.internal.InlineOnly
public inline operator fun <T> MutableCollection<in 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 of 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 [MutableCollection].
*/
public fun <T> MutableCollection<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 [MutableCollection].
*/
public fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {
    var result: Boolean = false
    for (item in elements)
        if (add(item)) result = true
    return result
}
**
* Adds all elements of the given [elements] array to this [MutableCollection].
*/
public fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {
    return addAll(elements.asList())
}
**
* 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>): Boolean {
    return removeAll(elements.convertToSetForSetOperationWith(this))
}
**
* Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.
*/
public fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {
    val set = elements.toHashSet()
    return set.isNotEmpty() && removeAll(set)
}
**
* Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.
*/
public fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {
    return elements.isNotEmpty() && removeAll(elements.toHashSet())
}
**
* Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.
*/
public fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {
    return retainAll(elements.convertToSetForSetOperationWith(this))
}
**
* Retains only elements of this [MutableCollection] that are contained in the given [elements] array.
*/
public fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {
    if (elements.isNotEmpty())
        return retainAll(elements.toHashSet())
    else
        return retainNothing()
}
**
* Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.
*/
public fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {
    val set = elements.toHashSet()
    if (set.isNotEmpty())
        return retainAll(set)
    else
        return retainNothing()
}
private fun MutableCollection<*>.retainNothing(): Boolean {
    val result = isEmpty()
    clear()
    return result
}

```

```

result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and
collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean):
Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that match the
given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all
elements were retained and collection was not modified.\n */\npublic fun <T>
MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun
<T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n
    var result = false\n    with(iterator()) {\n        while (hasNext())\n            if (predicate(next()) ==
predicateResultToRemove) {\n                remove()\n                result = true\n            }\n    }\n    return
result\n}\n\n/**\n * Returns a new list with the elements of this list randomly shuffled\n * using the specified
[random] instance as the source of randomness.\n */\n\n@SinceKotlin("1.3")\npublic fun <T>
Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\n\n\n/**\n *
Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n */\n\n@Deprecated("Use removeAt(index) instead.")
ReplaceWith("removeAt(index)", level = DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> MutableList<T>.removeFirst(): T = if
(isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(0)\n\n\n/**\n * Removes the first
element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> MutableList<T>.removeFirstOrNull(): T? =
if (isEmpty()) null else removeAt(0)\n\n\n/**\n * Removes the last element from this mutable list and returns that
removed element, or throws [NoSuchElementException] if this list is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> MutableList<T>.removeLast(): T = if
(isEmpty()) throw NoSuchElementException("List is empty.") else removeAt(lastIndex)\n\n\n/**\n * Removes the
last element from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun <T> MutableList<T>.removeLastOrNull(): T? =
if (isEmpty()) null else removeAt(lastIndex)\n\n\n/**\n * Removes all elements from this [MutableList] that match the
given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no
elements were removed and collection was not modified.\n */\n\npublic fun <T>
MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n\n/**\n * Retains
only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was
removed from this collection, or `false` when all elements were retained and collection was not modified.\n
*/\n\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
false)\n\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove:
Boolean): Boolean {\n    if (this !is RandomAccess)\n        return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex: Int = 0\n    for
(readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) ==
predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] =
element\n\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo
writeIndex)\n            removeAt(removeIndex)\n\n        return true\n    } else {\n        return false\n    }\n}\n\n\n/**\n *
Randomly shuffles elements in this mutable list using the specified [random] instance as the source of
randomness.\n *\n * See: https://en.wikipedia.org/wiki/Fisher%2080%93Yates\_shuffle#The\_modern\_algorithm\n
*/\n\n@SinceKotlin("1.3")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex
downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n\n",/>\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```

```

*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override fun set(index: Int, element: T): T =
delegate.set(reverseElementIndex(index), element)\n    override fun add(index: Int, element: T) {\n
delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun List<*>.reverseElementIndex(index:
Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException("Element index
$index must be in range [0..lastIndex].")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n    if (index
in 0..size) size - index else throw IndexOutOfBoundsException("Position index $index must be in range
[0..size].")\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the
original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n
*\n\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed
mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed
one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n
*\n\n@kotlin.jvm.JvmName("asReversedMutable")\n\npublic fun <T> MutableList<T>.asReversed():
MutableList<T> = ReversedList(this)\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n@file:UseExperimental(
ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport
kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a
[Sequence] lazily yielding values one by one.\n * @see kotlin.sequences.generateSequence\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n\n@SinceKotlin("1.3")\n\npublic fun <T>
sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T> = Sequence {
    iterator(block) }\n\n@SinceKotlin("1.3")\n\n@Deprecated("Use 'sequence { }' function instead.",
ReplaceWith("sequence(builderAction)"), level =
DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\npublic inline fun <T> buildSequence(@BuilderInference
noinline builderAction: suspend SequenceScope<T>().->Unit): Sequence<T> = Sequence { iterator(builderAction)
}\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n * @sample
samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n
*\n\n@SinceKotlin("1.3")\n\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>().->
Unit): Iterator<T> {\n    val iterator = SequenceBuilderIterator<T>()\n    iterator.nextStep =
block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n    return
iterator\n}\n\n@SinceKotlin("1.3")\n\n@Deprecated("Use 'iterator { }' function instead.",
ReplaceWith("iterator(builderAction)"), level = DeprecationLevel.ERROR)\n\n@kotlin.internal.InlineOnly\n\npublic
inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>().->Unit):
Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator],
provides [yield] and [yieldAll] suspension functions.\n * @see sequence\n * @see iterator\n * @sample
samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n
*\n\n@RestrictsSuspension\n\n@SinceKotlin("1.3")\n\npublic abstract class SequenceScope<in T> internal
constructor() {\n    /**\n     * Yields a value to the [Iterator] being built and suspends\n     * until the next
value is requested.\n     *\n     * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n     * @sample
samples.collections.Sequences.Building.buildFibonacciSequence\n     *\n     public abstract suspend fun yield(value:

```



```

T)\n\n /**\n * Yields all values from the `iterator` to the [Iterator] being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n * The sequence of values returned by the given iterator can be potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n */\n public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n /**\n * Yields a collections of values to the [Iterator] being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n */\n public suspend fun yieldAll(elements: Iterable<T>) {\n     if (elements is Collection && elements.isEmpty()) return\n     return yieldAll(elements.iterator())\n }\n\n /**\n * Yields potentially infinite sequence of values to the [Iterator] being built\n * and suspends until all these values are iterated and the next one is requested.\n *\n * The sequence can be potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n */\n public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated("Use SequenceScope class instead.", ReplaceWith("SequenceScope<T>"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\n\nprivate const val State_ManyNotReady: State = 1\n\nprivate const val State_ManyReady: State = 2\n\nprivate const val State_Ready: State = 3\n\nprivate const val State_Done: State = 4\n\nprivate const val State_Failed: State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state = State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? = null\n    var nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n            when (state) {\n                State_NotReady -> {}\n                State_ManyNotReady -> {\n                    if (nextIterator!!.hasNext()) {\n                        state = State_ManyReady\n                        return true\n                    }\n                }\n                State_Done -> return false\n                State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n            state = State_Failed\n            val step = nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n    override fun next(): T {\n        when (state) {\n            State_NotReady, State_ManyNotReady -> return nextNotReady()\n            State_ManyReady -> {\n                state = State_ManyNotReady\n                return nextIterator!!.next()\n            }\n            State_Ready -> {\n                state = State_NotReady\n                @Suppress("UNCHECKED_CAST")\n                val result = nextValue as T\n                nextValue = null\n                return result\n            }\n            else -> throw exceptionalState()\n        }\n    }\n\n    private fun nextNotReady(): T {\n        if (!hasNext()) throw NoSuchElementException() else return next()\n    }\n\n    private fun exceptionalState(): Throwable = when (state) {\n        State_Done -> NoSuchElementException()\n        State_Failed -> IllegalStateException("Iterator has failed.")\n        else -> IllegalStateException("Unexpected state of the iterator: $state")\n    }\n\n    override suspend fun yield(value: T) {\n        nextValue = value\n        state = State_Ready\n        return suspendCoroutineUninterceptedOrReturn { c -> {\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }}\n    }\n\n    override suspend fun yieldAll(iterator: Iterator<T>) {\n        if (!iterator.hasNext()) return\n        nextIterator = iterator\n        state = State_ManyReady\n        return suspendCoroutineUninterceptedOrReturn { c -> {\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }}\n    }\n\n    // Completion continuation implementation\n    override fun resumeWith(result: Result<Unit>) {\n        result.getOrThrow() // just rethrow exception if it is there\n        state = State_Done\n    }\n\n    override val context: CoroutineContext\n        get() = EmptyCoroutineContext\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\n    require(size > 0 && step > 0) {\n        if (size != step)\n            "Both size $size and step $step must be greater than zero." else\n                "size $size must be greater than zero." }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n    checkWindowSizeStep(size, step)\n    return Sequence {\n        windowedIterator(iterator(), size, step, partialWindows, reuseBuffer)\n    }\n}\n\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean):

```

```

Iterator<List<T>> {
    if (!iterator.hasNext()) return EmptyIterator
    return iterator<List<T>> {
        val
        bufferInitialCapacity = size.coerceAtMost(1024)
        val gap = step - size
        if (gap >= 0) {
            var buffer
            = ArrayList<T>(bufferInitialCapacity)
            var skip = 0
            for (e in iterator) {
                if (skip > 0) {
                    skip -- 1; continue
                }
                buffer.add(e)
                if (buffer.size == size) {
                    yield(buffer)
                    if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)
                    skip = gap
                }
            }
            if (buffer.isEmpty()) {
                if (partialWindows || buffer.size == size) yield(buffer)
            }
        } else {
            var buffer = RingBuffer<T>(bufferInitialCapacity)
            for (e in iterator) {
                buffer.add(e)
                if (buffer.isFull()) {
                    if (buffer.size < size) {
                        buffer =
                        buffer.expanded(maxCapacity = size); continue
                    }
                    yield(if (reuseBuffer) buffer else
                    ArrayList(buffer))
                    buffer.removeFirst(step)
                }
                if (partialWindows) {
                    while (buffer.size > step) {
                        yield(if (reuseBuffer) buffer else ArrayList(buffer))
                        buffer.removeFirst(step)
                    }
                    if (buffer.isNotEmpty()) yield(buffer)
                }
            }
        }
    }
}

internal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {
    private var fromIndex: Int = 0
    private var _size: Int = 0
    fun move(fromIndex: Int, toIndex: Int) {
        checkRangeIndexes(fromIndex, toIndex, list.size)
        this.fromIndex = fromIndex
        this._size = toIndex -
        fromIndex
    }
    override fun get(index: Int): E {
        checkElementIndex(index, _size)
        return
        list[fromIndex + index]
    }
    override val size: Int get() = _size
}

/**
 * Provides ring buffer
 * implementation.
 * * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.
 */
private class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(),
RandomAccess {
    init {
        require(filledSize >= 0) { "ring buffer filled size should not be negative but it is
        $filledSize" }
        require(filledSize <= buffer.size) { "ring buffer filled size: $filledSize cannot be larger than
        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)
        @Suppress("UNCHECKED_CAST")
        return buffer[startIndex.forward(index)] as T
    }
    fun isFull() =
    size == capacity
    override 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--
            }
        }
    }
    @Suppress("UNCHECKED_CAST")
    override fun <T> toArray(array: Array<T>): Array<T> {
        val
        result: Array<T?> =
        if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>
        val
        size = this.size
        var widx = 0
        var idx = startIndex
        while (widx < size && idx < capacity) {
            result[widx] = buffer[idx] as T
            widx++
            idx++
        }
        idx = 0
        while (widx <
        size) {
            result[widx] = buffer[idx] as T
            widx++
            idx++
        }
        if (result.size >
        this.size) result[this.size] = null
        return result 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,
                capacity)
            } else {
                buffer.fill(null, 0, end)
            }
        }
    }
}

```

```

startIndex = end\n        size -= n\n    }\n }\n\n @Suppress(\"NOTHING_TO_INLINE\")\n private
inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// UByteArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UByteArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
UShortArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left <
index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
UIntArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n//
ULongArray
=====
\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index
- 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\n//
Interfaces
=====
\n/**\n
* Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UByteArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UShortArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UIntArray) = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
ULongArray) = quickSort(array, 0, array.size - 1)", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport
kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the
experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user
functions.\n */\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either
by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by

```

```

using the compiler argument -Xopt-in=kotlin.contracts.ExperimentalContracts`.\n
*\n@Suppress("DEPRECATION")\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@Ex
perimental\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n *
Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to
describe the contract of a function.\n *\n * This type is used as a receiver type of the lambda function passed to the
[contract] function.\n *\n * @see contract\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic interface ContractBuilder {\n /**\n
* Describes a situation when a function returns normally, without any exceptions thrown.\n *\n * Use
[SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n *\n *\n //
@sample samples.contracts.returnsContract\n @ContractsDsl public fun returns(): Returns\n\n /**\n *
Describes a situation when a function returns normally with the specified return [value].\n *\n * The possible
values of [value] are limited to `true`, `false` or `null`.\n *\n * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n *\n *\n // @sample samples.contracts.returnsTrueContract\n
// @sample samples.contracts.returnsFalseContract\n // @sample samples.contracts.returnsNullContract\n
@ContractsDsl public fun returns(value: Any?): Returns\n\n /**\n * Describes a situation when a function
returns normally with any value that is not `null`.\n *\n * Use [SimpleEffect.implies] function to describe a
conditional effect that happens in such case.\n *\n *\n // @sample
samples.contracts.returnsNotNullContract\n @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n
/**\n * Specifies that the function parameter [lambda] is invoked in place.\n *\n * This contract specifies
that:\n * 1. the function [lambda] can only be invoked during the call of the owner function,\n * and it won't be
invoked after that owner function call is completed;\n * 2. (optionally)_ the function [lambda] is invoked the
amount of times specified by the [kind] parameter.\n * see the [InvocationKind] enum for possible values.\n
*\n * A function declaring the `callsInPlace` effect must be _inline_.\n *\n *\n /* @sample
samples.contracts.callsInPlaceAtMostOnceContract\n * @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n * @sample
samples.contracts.callsInPlaceExactlyOnceContract\n * @sample
samples.contracts.callsInPlaceUnknownContract\n *\n @ContractsDsl public fun <R> callsInPlace(lambda:
Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how
many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the
details of the call-in-place function contract.\n
*\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin("1.3")\npublic enum class InvocationKind {\n
/**\n * A function parameter will be invoked one time or not invoked at all.\n *\n // @sample
samples.contracts.callsInPlaceAtMostOnceContract\n @ContractsDsl AT_MOST_ONCE,\n\n /**\n * A
function parameter will be invoked one or more times.\n *\n *\n // @sample
samples.contracts.callsInPlaceAtLeastOnceContract\n @ContractsDsl AT_LEAST_ONCE,\n\n /**\n * A
function parameter will be invoked exactly one time.\n *\n *\n // @sample
samples.contracts.callsInPlaceExactlyOnceContract\n @ContractsDsl EXACTLY_ONCE,\n\n /**\n * A
function parameter is called in place, but it's unknown how many times it can be called.\n *\n *\n // @sample
samples.contracts.callsInPlaceUnknownContract\n @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the
contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one
effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where
the contract of a function is described with the help of the [ContractBuilder] members.\n *\n *\n /* @sample
samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample
samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample
samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n*
@sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample
samples.contracts.callsInPlaceExactlyOnceContract\n* @sample
samples.contracts.callsInPlaceUnknownContract\n*\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@

```

```

SinceKotlin("1.3")\n@Suppress("UNUSED_PARAMETER")\npublic inline fun contract(builder:
ContractBuilder.() -> Unit) { }\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that
intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the
interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n */\n *
[ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n *
its implementation delegates [get][CoroutineContext.Element.get] and
[minusKey][CoroutineContext.Element.minusKey]\n * to [getPolymorphicElement] and [minusPolymorphicKey]
respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either
[ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n
*/\n\n@SinceKotlin("1.3")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n /**\n *
The key that defines *the* context interceptor.\n */\n companion object Key :
CoroutineContext.Key<ContinuationInterceptor>\n\n /**\n * Returns continuation that wraps the original
[continuation], thus intercepting all resumptions.\n * This function is invoked by coroutines framework when
needed and the resulting continuations are\n * cached internally per each instance of the original [continuation].\n
*/\n * This function may simply return original [continuation] if it does not want to intercept this particular
continuation.\n */\n * When the original [continuation] completes, coroutine framework invokes
[releaseInterceptedContinuation]\n * with the resulting continuation if it was intercepted, that is if
`interceptContinuation` had previously\n * returned a different continuation instance.\n */\n public fun <T>
interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n /**\n * Invoked for the
continuation instance returned by [interceptContinuation] when the original\n * continuation completes and will
not be used anymore. This function is invoked only if [interceptContinuation]\n * had returned a different
continuation instance from the one it was invoked with.\n */\n * Default implementation does nothing.\n */\n
*/\n * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n
*/\n public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n /* do nothing by default
*/\n }\n\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? {\n // getPolymorphicKey specialized for ContinuationInterceptor key\n
*/\n\n @OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<*, *>) {\n
*/\n\n @Suppress("UNCHECKED_CAST")\n return if (key.isSubKey(this.key)) key.tryCast(this) as? E else
null\n }\n\n @Suppress("UNCHECKED_CAST")\n return if (ContinuationInterceptor === key) this as
E else null\n }\n\n\n public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n
*/\n\n // minusPolymorphicKey specialized for ContinuationInterceptor key\n
*/\n\n @OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<*, *>) {\n return if
(key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n }\n return if
(ContinuationInterceptor === key) EmptyCoroutineContext else this\n }\n}\n", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n *
Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between
a set and a map.\n * Every element in this set has a unique [Key].\n */\n\n@SinceKotlin("1.3")\npublic interface
CoroutineContext {\n /**\n * Returns the element with the given [key] from this context or `null`.\n */\n
*/\n\n public operator fun <E : Element> get(key: Key<E>): E?\n\n /**\n * Accumulates entries of this context
starting with [initial] value and applying [operation]\n * from left to right to current accumulator value and each
element of this context.\n */\n\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n /**\n *
Returns a context containing elements from this context and elements from other [context].\n * The elements
from this context with the same key as in the other one are dropped.\n */\n\n public operator fun plus(context:
CoroutineContext): CoroutineContext =\n if (context === EmptyCoroutineContext) this else // fast path -- avoid
lambda creation\n context.fold(this) { acc, element ->\n val removed =

```

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acc.minusKey(element.key)\n          if (removed === EmptyCoroutineContext) element else {\n          //
make sure interceptor is always last in the context (and thus is fast to get when present)\n          val interceptor
= removed[ContinuationInterceptor]\n          if (interceptor == null) CombinedContext(removed, element) else
{\n          val left = removed.minusKey(ContinuationInterceptor)\n          if (left ===
EmptyCoroutineContext) CombinedContext(element, interceptor) else\n
CombinedContext(CombinedContext(left, element), interceptor)\n          }\n          }\n          }\n          /**\n
* Returns a context containing elements from this context, but without an element with\n
* the specified [key].\n
*\n
public fun minusKey(key: Key<*>): CoroutineContext\n
/**\n
* Key for the elements of
[CoroutineContext]. [E] is a type of element with this key.\n
*\n
public interface Key<E : Element>\n
/**\n
* An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\n
*\n
public interface Element : CoroutineContext {\n
/**\n
* A key of this coroutine context element.\n
*\n
public val key: Key<*>\n
public override operator fun <E : Element> get(key: Key<E>): E? =\n
@Suppress("UNCHECKED_CAST")\n
if (this.key == key) this as E else null\n
public override
fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n
operation(initial, this)\n
public override
fun minusKey(key: Key<*>): CoroutineContext =\n
if (this.key == key) EmptyCoroutineContext else this\n
}\n
}\n
"/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n
*\n
package kotlin.coroutines\n
import kotlin.coroutines.CoroutineContext.Element\n
import
kotlin.coroutines.CoroutineContext.Key\n
/**\n
* Base class for [CoroutineContext.Element] implementations.\n
*\n
@SinceKotlin("1.3")\n
public abstract class AbstractCoroutineContextElement(public override val key:
Key<*>) : Element\n
/**\n
* Base class for [CoroutineContext.Key] associated with polymorphic
[CoroutineContext.Element] implementation.\n
* Polymorphic element implementation implies delegating its
[get][Element.get] and [minusKey][Element.minusKey]\n
* to [getPolymorphicElement] and
[minusPolymorphicKey] respectively.\n
*\n
* Polymorphic elements can be extracted from the coroutine context
using both element key and its supertype key.\n
* Example of polymorphic elements:\n
* ``\n
* open class
BaseElement : CoroutineContext.Element {\n
* companion object Key : CoroutineContext.Key<BaseElement>\n
* override val key: CoroutineContext.Key<*> get() = Key\n
* // It is important to use getPolymorphicKey and
minusPolymorphicKey\n
* override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>):
E? = getPolymorphicElement(key)\n
* override fun minusKey(key: CoroutineContext.Key<*>):
CoroutineContext = minusPolymorphicKey(key)\n
* }\n
*\n
* class DerivedElement : BaseElement() {\n
* companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as?
DerivedElement })\n
* }\n
*\n
* // Now it is possible to query both `BaseElement` and `DerivedElement`\n
* someContext[BaseElement] // Returns BaseElement?, non-null both for BaseElement and DerivedElement
instances\n
* someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement
instance\n
* ``\n
* @param B base class of a polymorphic element\n
* @param baseKey an instance of base key\n
* @param E element type associated with the current key\n
* @param safeCast a function that can safely cast
abstract [CoroutineContext.Element] to the concrete [E] type\n
* and return the element if it is a subtype
of [E] or `null` otherwise.\n
*\n
@SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n
public abstract class
AbstractCoroutineContextKey<B : Element, E : B>(\n
baseKey: Key<B>,\n
private val safeCast: (element:
Element) -> E?) : Key<E> {\n
private val topmostKey: Key<*> = if (baseKey is
AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n
internal fun tryCast(element:
Element): E? = safeCast(element)\n
internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
=== key\n
}\n
/**\n
* Returns the current element if it is associated with the given [key] in a polymorphic manner
or `null` otherwise.\n
* This method returns non-null value if either [Element.key] is equal to the given [key] or if
the [key] is associated\n
* with [Element.key] via [AbstractCoroutineContextKey].\n
* See
[AbstractCoroutineContextKey] for the example of usage.\n
*\n
@SinceKotlin("1.3")\n
@ExperimentalStdlibApi\n
public fun <E : Element>
Element.getPolymorphicElement(key: Key<E>): E? {\n
if (key is AbstractCoroutineContextKey<*, *>) {\n

```

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@Suppress("UNCHECKED_CAST")\n    return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n
}\n @Suppress("UNCHECKED_CAST")\n    return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or\n * `null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the given [key] or if the\n * [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See\n * [AbstractCoroutineContextKey] for the example of usage.\n
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Element.minusPolymorphicKey(key: Key<*>):\n    CoroutineContext {\n    if (key is AbstractCoroutineContextKey<*, *>) {\n        return if (key.isSubKey(this.key)\n        && key.tryCast(this) != null) EmptyCoroutineContext else this\n    }\n    return if (this.key === key)\n    EmptyCoroutineContext else this\n}\n\n/**\n * An empty coroutine context.\n
*\n@SinceKotlin("1.3")\npublic\nobject EmptyCoroutineContext : CoroutineContext, Serializable {\n    private const val serialVersionUID: Long =\n    0\n    private fun readResolve(): Any = EmptyCoroutineContext\n\n    public override fun <E : Element> get(key:\n    Key<E>): E? = null\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n    public\n    override fun plus(context: CoroutineContext): CoroutineContext = context\n    public override fun minusKey(key:\n    Key<*>): CoroutineContext = this\n    public override fun hashCode(): Int = 0\n    public override fun toString():\n    String = "EmptyCoroutineContext"\n}\n\n//----- internal impl ----- \n\n// this class is not\n    exposed, but is hidden inside implementations\n\n// this is a left-biased list, so that `plus` works\n    naturally\n\n@SinceKotlin("1.3")\ninternal class CombinedContext(\n    private val left: CoroutineContext,\n    private val element: Element\n) : CoroutineContext, Serializable {\n\n    override fun <E : Element> get(key:\n    Key<E>): E? {\n        var cur = this\n        while (true) {\n            cur.element[key]?.let { return it }\n            val next\n            = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return\n                next[key]\n            }\n        }\n\n    public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n    operation(left.fold(initial, operation), element)\n\n    public override fun minusKey(key: Key<*>):\n    CoroutineContext {\n        element[key]?.let { return left }\n        val newLeft = left.minusKey(key)\n        return\n        when {\n            newLeft === left -> this\n            newLeft === EmptyCoroutineContext -> element\n            else ->\n            CombinedContext(newLeft, element)\n        }\n\n    private fun size(): Int {\n        var cur = this\n        var size\n        = 2\n        while (true) {\n            cur = cur.left as? CombinedContext ?: return size\n            size++\n        }\n    }\n\n    private fun contains(element: Element): Boolean =\n    get(element.key) == element\n\n    private fun\n    containsAll(context: CombinedContext): Boolean {\n        var cur = context\n        while (true) {\n            if\n            (!contains(cur.element)) return false\n            val next = cur.left\n            if (next is CombinedContext) {\n                cur = next\n            } else {\n                return contains(next as Element)\n            }\n        }\n\n    override fun\n    equals(other: Any?): Boolean =\n    this === other || other is CombinedContext && other.size() == size() &&\n    other.containsAll(this)\n\n    override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n    override\n    fun toString(): String =\n    "[" + fold("") { acc, element ->\n        if (acc.isEmpty()) element.toString() else\n        "$acc, $element"\n    } + "]\n\n    private fun writeReplace(): Any {\n        val n = size()\n        val elements =\n        arrayOfNulls<CoroutineContext>(n)\n        var index = 0\n        fold(Unit) { _, element -> elements[index++] =\n        element }\n        check(index == n)\n        @Suppress("UNCHECKED_CAST")\n        return Serialized(elements\n        as Array<CoroutineContext>)\n    }\n\n    private class Serialized(val elements: Array<CoroutineContext>):\n    Serializable {\n        companion object {\n            private const val serialVersionUID: Long = 0L\n        }\n\n        private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n    }\n}\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code\n * is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n*\n@file:kotlin.jvm.JvmName("IntrinsicsKt")\n@file:kotlin.jvm.JvmMultifileClass\npackage\n    kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the\n * current continuation instance inside suspend functions and either suspends\n * currently running coroutine or returns\n * result immediately without suspension.\n * \n * If the [block] returns the special [COROUTINE_SUSPENDED]\n * value, it means that suspend function did suspend the execution and will\n * not return any result immediately. In\n * this case, the [Continuation] provided to the [block] shall be\n * resumed by invoking [Continuation.resumeWith] at

```

some moment in the future when the result becomes available to resume the computation. Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function. It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked. As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked, its proper return type remains on the conscience of the suspend function's author. Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation context is established. [Continuation.intercepted] can be used to acquire the intercepted continuation. Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current continuation instance.

```

*^@SinceKotlin("1.3")@InlineOnly@Suppress("UNUSED_PARAMETER",
"RedundantSuspendModifier")public suspend inline fun <T>
suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T = throw
NotImplementedError("Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic")

```

This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that the execution was suspended and will not return any result immediately. Note: this value should not be used in general code. Using it outside of the context of `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to, storing this value in other properties, returning it from other functions, etc) can lead to unspecified behavior of the code. It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicKt class

```

@SinceKotlin("1.3")public val
COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED

```

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

```

@SinceKotlin("1.3")@PublishedApi //
This class is Published API via serialized representation of SafeContinuation, don't rename/move
internal enum
class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }

```

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```

package
kotlin.experimental

```

Performs a bitwise AND operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Byte.and(other: Byte): Byte =
(this.toInt() and other.toInt()).toByte()

```

Performs a bitwise OR operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Byte.or(other: Byte): Byte =
(this.toInt() or other.toInt()).toByte()

```

Performs a bitwise XOR operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Byte.xor(other: Byte): Byte =
(this.toInt() xor other.toInt()).toByte()

```

Inverts the bits in this value.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline fun Byte.inv(): Byte =
(this.toInt().inv()).toByte()

```

Performs a bitwise AND operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Short.and(other: Short): Short =
(this.toInt() and other.toInt()).toShort()

```

Performs a bitwise OR operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Short.or(other: Short): Short =
(this.toInt() or other.toInt()).toShort()

```

Performs a bitwise XOR operation between the two values.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline infix fun Short.xor(other: Short): Short =
(this.toInt() xor other.toInt()).toShort()

```

Inverts the bits in this value.

```

@SinceKotlin("1.1")@kotlin.internal.InlineOnlypublic inline fun Short.inv(): Short =
(this.toInt().inv()).toShort()

```

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```

package kotlin.experimental

```

The experimental marker for type


```

this callback is invoked.\n * If the callback returns `true` the value of the property is being set to the new value,\n
* and if the callback returns `false` the new value is discarded and the property remains its old value.\n */\n
protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true\n\n /**\n
* The callback which is called after the change of the property is made. The value of the property\n
* has already been changed when this callback is invoked.\n */\n protected open fun afterChange(property: KProperty<*>,\n
oldValue: T, newValue: T): Unit { }\n\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T\n
{\n return value\n }\n\n public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n
val oldValue = this.value\n if (!beforeChange(property, oldValue, value)) {\n return\n }\n
this.value = value\n afterChange(property, oldValue, value)\n }\n}"/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport
kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n
*\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance
of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n
*/\n\n@SinceKotlin("1.3")\npublic abstract class Random {\n\n /**\n * Gets the next random [bitCount] number
of bits.\n *\n * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining
upper bits are zero.\n *\n * @param bitCount number of bits to generate, must be in range 0..32, otherwise the
behavior is unspecified.\n */\n public abstract fun nextBits(bitCount: Int): Int\n\n /**\n * Gets the next
random `Int` from the random number generator.\n *\n * Generates an `Int` random value uniformly distributed
between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n */\n public open fun nextInt(): Int =
nextBits(32)\n\n /**\n * Gets the next random non-negative `Int` from the random number generator less than
the specified [until] bound.\n *\n * Generates an `Int` random value uniformly distributed between `0`
(inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be positive.\n *\n *
@throws IllegalArgumentException if [until] is negative or zero.\n */\n public open fun nextInt(until: Int): Int =
nextInt(0, until)\n\n /**\n * Gets the next random `Int` from the random number generator in the specified
range.\n *\n * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive)
and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to
[until].\n */\n public open fun nextInt(from: Int, until: Int): Int {\n checkRangeBounds(from, until)\n
val n = until - from\n if (n > 0 || n == Int.MIN_VALUE) {\n val rnd = if (n and -n == n) {\n val
bitCount = fastLog2(n)\n nextBits(bitCount)\n } else {\n var v: Int\n do {\n
val bits = nextInt().ushr(1)\n v = bits % n\n } while (bits - v + (n - 1) < 0)\n v\n
}\n return from + rnd\n } else {\n while (true) {\n val rnd = nextInt()\n if
(rnd in from until until) return rnd\n }\n }\n }\n\n /**\n * Gets the next random `Long` from the
random number generator.\n *\n * Generates a `Long` random value uniformly distributed between
`Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n */\n public open fun nextLong(): Long =
nextInt().toLong().shl(32) + nextInt()\n\n /**\n * Gets the next random non-negative `Long` from the random
number generator less than the specified [until] bound.\n *\n * Generates a `Long` random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be
positive.\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n */\n public open fun
nextLong(until: Long): Long = nextLong(0, until)\n\n /**\n * Gets the next random `Long` from the random
number generator in the specified range.\n *\n * Generates a `Long` random value uniformly distributed
between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n */\n public open fun nextLong(from:
Long, until: Long): Long {\n checkRangeBounds(from, until)\n val n = until - from\n if (n > 0) {\n
val rnd: Long\n if (n and -n == n) {\n val nLow = n.toInt()\n val nHigh = (n ushr
32).toInt()\n rnd = when {\n nLow != 0 -> {\n val bitCount = fastLog2(nLow)\n
// toUInt().toLong()\n nextBits(bitCount).toLong() and 0xFFFF_FFFF\n }\n
nHigh == 1 ->{\n // toUInt().toLong()\n nextInt().toLong() and

```



```

defaultRandom.nextBytes(size)\n    override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\n\n    @Deprecated("Use Default companion
object instead", level = DeprecationLevel.HIDDEN)\n    @Suppress("DEPRECATION_ERROR")\n
@kotlin.jvm.JvmField\n    public val Companion: Random.Companion = Random.Companion\n    }\n\n
@Deprecated("Use Default companion object instead", level = DeprecationLevel.HIDDEN)\n    public object
Companion : Random() {\n    override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)\n
}\n}\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\n * Two
generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *
**Note:** Future versions of Kotlin may change the algorithm of this seeded number generator so that it will
return\n * a sequence of values different from the current one for a given seed.\n * \n * @sample
samples.random.Randoms.seededRandom\n * \n @SinceKotlin("1.3")\n\npublic fun Random(seed: Int): Random =
XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the
given [seed] `Long` value.\n * Two generators with the same seed produce the same sequence of values within
the same version of Kotlin runtime.\n * \n * **Note:** Future versions of Kotlin may change the algorithm of this
seeded number generator so that it will return\n * a sequence of values different from the current one for a given
seed.\n * \n * @sample samples.random.Randoms.seededRandom\n * \n @SinceKotlin("1.3")\n\npublic fun
Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\n\n\n\n/**\n * Gets the next
random `Int` from the random number generator in the specified [range].\n * \n * Generates an `Int` random value
uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n
*\n * @throws IllegalArgumentException if [range] is empty.\n * \n @SinceKotlin("1.3")\n\npublic fun
Random.nextInt(range: IntRange): Int = when {\n    range.isEmpty() -> throw IllegalArgumentException("Cannot
get random in empty range: $range")\n    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\n
range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n    else -> nextInt()\n}\n\n\n/**\n * Gets the
next random `Long` from the random number generator in the specified [range].\n * \n * Generates a `Long` random
value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive`
inclusive.\n * \n * @throws IllegalArgumentException if [range] is empty.\n * \n @SinceKotlin("1.3")\n\npublic fun
Random.nextLong(range: LongRange): Long = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < Long.MAX_VALUE ->
nextLong(range.first, range.last + 1)\n    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) +
1\n    else -> nextLong()\n}\n\n\n\ninternal expect fun defaultPlatformRandom(): Random\n\ninternal expect fun
doubleFromParts(hi26: Int, low27: Int): Double\n\n\n@UseExperimental(ExperimentalStdlibApi::class)\n\ninternal fun
fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n\n/**\n * Takes upper [bitCount] bits (0..32) from this
number. *\n\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n    this.ushr(32 - bitCount) and (-
bitCount).shr(31)\n\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) {\n
boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until >
from) {\n    boundsErrorMessage(from, until) }\n\ninternal fun checkRangeBounds(from: Double, until: Double) =
require(until > from) {\n    boundsErrorMessage(from, until) }\n\n\ninternal fun boundsErrorMessage(from: Any, until:
Any) = "Random range is empty: [$from, $until].\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n @package kotlin.random\n\n\n\n/**\n * Gets the next random [UInt]
from the random number generator.\n * \n * Generates a [UInt] random value uniformly distributed between
[UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n
*\n @SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun Random.nextUInt(): UInt =
nextInt().toUInt()\n\n\n/**\n * Gets the next random [UInt] from the random number generator less than the specified
[until] bound.\n * \n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the
specified [until] bound (exclusive).\n * \n * @throws IllegalArgumentException if [until] is zero.\n
*\n @SinceKotlin("1.3")\n\n@ExperimentalUnsignedTypes\n\npublic fun Random.nextUInt(until: UInt): UInt =
nextUInt(0u, until)\n\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified

```

```

range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and
[until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(from: UInt, until: UInt):
UInt {\n    checkUIntRangeBounds(from, until)\n    val signedFrom = from.toInt() xor Int.MIN_VALUE\n    val
signedUntil = until.toInt() xor Int.MIN_VALUE\n    val signedResult = nextInt(signedFrom, signedUntil) xor
Int.MIN_VALUE\n    return signedResult.toUInt()\n}\n\n/**\n * Gets the next random [UInt] from the random
number generator in the specified [range].\n *\n * Generates a [UInt] random value uniformly distributed in the
specified [range]:\n *\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws
IllegalArgumentException if [range] is empty.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextUInt(range: UIntRange): UInt = when {\n    range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")\n    range.last < UInt.MAX_VALUE ->
nextUInt(range.first, range.last + 1u)\n    range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) +
1u\n    else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n *
Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and
[ULong.MAX_VALUE] (inclusive).\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random
number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly
distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws
IllegalArgumentException if [until] is zero.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong]
from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly
distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws
IllegalArgumentException if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(from: ULong, until:
ULong): ULong {\n    checkULongRangeBounds(from, until)\n    val signedFrom = from.toLong() xor
Long.MIN_VALUE\n    val signedUntil = until.toLong() xor Long.MIN_VALUE\n    val signedResult =
nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n    return signedResult.toULong()\n}\n\n/**\n * Gets
the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a [ULong]
random value uniformly distributed in the specified [range]:\n *\n * from `range.start` inclusive to `range.endInclusive`
inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(range: ULongRange):
ULong = when {\n    range.isEmpty() -> throw IllegalArgumentException("Cannot get random in empty range:
$range")\n    range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\n    range.first >
ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\n    else -> nextULong()\n}\n\n/**\n * Fills
the specified unsigned byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random
bytes.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array:
UByteArray): UByteArray {\n    nextBytes(array.asByteArray())\n    return array\n}\n\n/**\n * Creates an unsigned
byte array of the specified [size], filled with random bytes.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray
= nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from
[fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\n *\n * @return [array] with the
subrange filled with random bytes.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n
    nextBytes(array.asByteArray(), fromIndex, toIndex)\n    return
array\n}\n\n@ExperimentalUnsignedTypes\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) =
require(until > from) { boundsErrorMessage(from, until) }\n@ExperimentalUnsignedTypes\ninternal fun
checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until)
}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this

```



```

IEEE-754.\n *\nprivate class ClosedFloatRange(\n  start: Float,\n  endInclusive: Float\n) :
ClosedFloatingPointRange<Float> {\n  private val _start = start\n  private val _endInclusive = endInclusive\n
override val start: Float get() = _start\n  override val endInclusive: Float get() = _endInclusive\n\n  override fun
lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n  override fun contains(value: Float): Boolean = value
>= _start && value <= _endInclusive\n  override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n
override fun equals(other: Any?): Boolean {\n  return other is ClosedFloatRange && (isEmpty() &&
other.isEmpty()) ||\n    _start == other._start && _endInclusive == other._endInclusive\n  }\n\n  override
fun hashCode(): Int {\n  return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n
}\n\n  override fun toString(): String = "$_start..$_endInclusive"\n}\n\n/**\n * Creates a range from this [Float]
value to the specified [that] value.\n * \n * Numbers are compared with the ends of this range according to IEEE-
754.\n * @sample samples.ranges.Ranges.rangeFromFloat\n */\n\n@SinceKotlin("1.1")\n\npublic operator fun
Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n/**\n * Returns
`true` if this iterable range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n
*/\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun <T, R> R.contains(element: T?):
Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n  element != null &&
contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n  if (!isPositive)
throw IllegalArgumentException("Step must be positive, was: $step.")\n}\n\n"/*\n * Copyright 2010-2019
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("KClasses")\n\n@file:Suppress("UNCHECKED_CAST")\n\n\npackage
kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Casts the given [value] to the
class represented by this [KClass] object.\n * \n * Throws an exception if the value is `null` or if it is not an instance of
this class.\n * \n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on
JVM.\n * \n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n
*/\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\n@LowPriorityInOverloadResolution\n\nfun <T : Any>
KClass<T>.cast(value: Any?): T {\n  if (!isInstance(value)) throw ClassCastException("Value cannot be cast to
$qualifiedName")\n  return value as T\n}\n\n/**\n * Casts the given [value] to the class represented by this
[KClass] object.\n * \n * Returns `null` if the value is `null` or if it is not an instance of this class.\n * \n * This is an
experimental function that behaves as a similar function from kotlin.reflect.full on JVM.\n * \n * @see
[KClass.isInstance]\n * @see [KClass.cast]\n
*/\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\n@LowPriorityInOverloadResolution\n\nfun <T : Any>
KClass<T>.safeCast(value: Any?): T? {\n  return if (isInstance(value)) value as T else null\n}\n\n"/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n\npackage kotlin.reflect\n\n/**\n
 * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n
*/\n\n@Suppress("unused") // KT-12448\n\n@SinceKotlin("1.3")\n\n@ExperimentalStdlibApi\n\npublic inline fun
<reified T> typeOf(): KType =\n  throw UnsupportedOperationException("This function is implemented as an
intrinsic on all supported platforms.")\n\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n\n@file:kotlin.jvm.JvmMultifileClass\n\n@file:kotlin.jvm.JvmName("StringsKt")\n\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\n\nexpect interface
Appendable {\n  /**\n   * Appends the specified character [value] to this Appendable and returns this instance.\n
   *\n   * @param value the character to append.\n   */\n  fun append(value: Char): Appendable\n\n  /**\n   *
Appends the specified character sequence [value] to this Appendable and returns this instance.\n   *\n   * @param
value the character sequence to append. If [value] is `null`, then the four characters `\\`null` are appended to this
Appendable.\n   */\n  fun append(value: CharSequence?): Appendable\n\n  /**\n   * Appends a subsequence of
the specified character sequence [value] to this Appendable and returns this instance.\n   *\n   * @param value the

```


character sequence from which a subsequence is appended. If [value] is `null`, then characters are appended as if [value] contained the four characters `"\null"`.
 * @param startIndex the beginning (inclusive) of the subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.
 fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable
 Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.
 * @param value the character sequence from which a subsequence is appended. If [value] is `null`, then characters are appended as if [value] contained the four characters `"\null"`.
 * @param startIndex the beginning (inclusive) of the subsequence to append.
 * @param endIndex the end (exclusive) of the subsequence to append.
 * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.

```

*^@SinceKotlin("1.3")^@ExperimentalStdlibApi^public fun <T : Appendable> T.appendRange(value:
CharSequence?, startIndex: Int, endIndex: Int): T {
    @Suppress("UNCHECKED_CAST")
    return
    append(value, startIndex, endIndex) as T
}
* Appends all arguments to the given [Appendable].

*^public fun <T : Appendable> T.append(vararg value: CharSequence?): T {
    for (item in value)
        append(item)
    return this
}
internal fun <T> Appendable.appendElement(element: T, transform: ((T) ->
CharSequence?)) {
    when {
        transform != null -> append(transform(element))
        element is
        CharSequence? -> append(element)
        element is Char -> append(element)
        else ->
        append(element.toString())
    }
}
*/
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Language contributors.
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license/LICENSE.txt file.

*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("CharsKt")^package kotlin.text
* Concatenates this Char and a String.
* @sample samples.text.Chars.plus

*^@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.
* @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.
* Two characters are considered the same ignoring case if at least one of the following is `true`:
  * - The two characters are the same (as compared by the == operator)
  * - Applying the method [toUpperCase] to each character produces the same result
  * - Applying the method [toLowerCase] to each character produces the same result
* @sample samples.text.Chars.equals
*^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
}
* Returns `true` if this character is a Unicode surrogate code unit.
*^public fun
Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE
*/
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*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("StringsKt")^package
kotlin.text
* Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes
* the first and the last lines if they are blank (notice difference blank vs empty).
* Doesn't
* affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.
* Doesn't preserve the
* original line endings.
* @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|`
(pipe character).
* @sample samples.text.Strings.trimMargin
* @see trimIndent
* @see
kotlin.text.isWhitespace
*^public fun String.trimMargin(marginPrefix: String = "|"): String =
replaceIndentByMargin("|", marginPrefix)
* Detects indent by [marginPrefix] as it does [trimMargin] and
replace it with [newIndent].
* @param marginPrefix non-blank string, which is used as a margin delimiter.
Default is `|` (pipe character).
*^public fun String.replaceIndentByMargin(newIndent: String = "|",
marginPrefix: String = "|"): String {
    require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank

```

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string.\n } \n val lines = lines()\n\n return lines.reindent(length + newIndent.length * lines.size,
getIndentFunction(newIndent), { line ->\n    val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace()
}\n\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 * Detects a common minimal indent of all the input lines, removes it from every line and
also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n *\n * Note that
blank lines do not affect the detected indent level.\n *\n * In case if there are non-blank lines with no leading
whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change
the indentation.\n *\n * Doesn't preserve the original line endings.\n *\n * @sample
samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\npublic fun
String.trimIndent(): String = replaceIndent("\n")\n\n/**\n * Detects a common minimal indent like it does
[trimIndent] and replaces it with the specified [newIndent].\n *\npublic fun String.replaceIndent(newIndent: String
= "\n"): String {\n    val lines = lines()\n\n    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n
.map(String::indentWidth)\n        .min() ?: 0\n\n    return lines.reindent(length + newIndent.length * lines.size,
getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n}\n\n/**\n * Prepends [indent] to every
line of the original string.\n *\n * Doesn't preserve the original line endings.\n *\npublic fun
String.prependIndent(indent: String = "\n\n"): String =\n    lineSequence()\n        .map {\n            when {\n
it.isBlank() -> {\n                when {\n                    it.length < indent.length -> indent\n                    else -> it\n
                }\n            }\n            else -> indent + it\n        }\n        .joinToString("\n\n")\n\nprivate fun
String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun
getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -
> indent + line }\n}\n}\n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction:
(String) -> String,\n    indentCutFunction: (String) -> String?): String {\n    val lastIndex = lastIndex\n    return
mapIndexedNotNull { index, value ->\n        if ((index == 0 || index == lastIndex) && value.isBlank())\n            null\n        else\n            indentCutFunction(value)?.let(indentAddFunction) ?: value\n    }\n
}\n\n.joinTo(StringBuilder(resultSizeEstimate), "\n\n")\n    .toString()\n}\n\n"/\n\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for
Unicode symbols used in proper Typography.\n *\npublic object Typography {\n    /** The character &#x22;
\u2013 quotation mark *\n    public const val quote: Char = "\u0022"\n    /** The character &#x24; \u2013 dollar
sign *\n    public const val dollar: Char = "\u0024"\n    /** The character &#x26; \u2013 ampersand *\n    public
const val amp: Char = "\u0026"\n    /** The character &#x3C; \u2013 less-than sign *\n    public const val less:
Char = "\u003C"\n    /** The character &#x3E; \u2013 greater-than sign *\n    public const val greater: Char =
"\u003E"\n    /** The non-breaking space character *\n    public const val nbsp: Char = "\u00A0"\n    /** The
character &#xD7; *\n    public const val times: Char = "\u00D7"\n    /** The character &#xA2; *\n    public
const val cent: Char = "\u00A2"\n    /** The character &#xA3; *\n    public const val pound: Char = "\u00A3"\n    /** The
character &#xA7; *\n    public const val section: Char = "\u00A7"\n    /** The character &#xA9; *\n    public
const val copyright: Char = "\u00A9"\n    /** The character &#xAB; *\n    public const val leftGuillemete: Char =
"\u00AB"\n    /** The character &#xBB; *\n    public const val rightGuillemete: Char = "\u00BB"\n    /** The
character &#xAE; *\n    public const val registered: Char = "\u00AE"\n    /** The character &#xB0; *\n    public
const val degree: Char = "\u00B0"\n    /** The character &#xB1; *\n    public const val plusMinus: Char =
"\u00B1"\n    /** The character &#xB6; *\n    public const val paragraph: Char = "\u00B6"\n    /** The character
&#xB7; *\n    public const val middleDot: Char = "\u00B7"\n    /** The character &#xBD; *\n    public const val
half: Char = "\u00BD"\n    /** The character &#x2013; *\n    public const val ndash: Char = "\u2013"\n    /** The
character &#x2014; *\n    public const val mdash: Char = "\u2014"\n    /** The character &#x2018; *\n    public
const val leftSingleQuote: Char = "\u2018"\n    /** The character &#x2019; *\n    public const val rightSingleQuote:
Char = "\u2019"\n    /** The character &#x201A; *\n    public const val lowSingleQuote: Char = "\u201A"\n    /**
The character &#x201C; *\n    public const val leftDoubleQuote: Char = "\u201C"\n    /** The character &#x201D;

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*\n public const val rightDoubleQuote: Char = "\u201D"\n /** The character &#x201E; *\n public const val
lowDoubleQuote: Char = "\u201E"\n /** The character &#x2020; *\n public const val dagger: Char =
"\u2020"\n /** The character &#x2021; *\n public const val doubleDagger: Char = "\u2021"\n /** The
character &#x2022; *\n public const val bullet: Char = "\u2022"\n /** The character &#x2026; *\n public
const val ellipsis: Char = "\u2026"\n /** The character &#x2032; *\n public const val prime: Char = "\u2032"\n
/** The character &#x2033; *\n public const val doublePrime: Char = "\u2033"\n /** The character &#x20AC;
*\n public const val euro: Char = "\u20AC"\n /** The character &#x2122; *\n public const val tm: Char =
"\u2122"\n /** The character &#x2248; *\n public const val almostEqual: Char = "\u2248"\n /** The character
&#x2260; *\n public const val notEqual: Char = "\u2260"\n /** The character &#x2264; *\n public const val
lessOrEqual: Char = "\u2264"\n /** The character &#x2265; *\n public const val greaterOrEqual: Char =
"\u2265"\n}"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.text\n/**\n * Represents a collection of captured groups in a single match of a regular
expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the
regular expression.\n *\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the
entire match.\n *\n * An element of the collection at the particular index can be `null`,\n * if the corresponding
group in the regular expression is optional and\n * there was no match captured by that group.\n */\npublic interface
MatchGroupCollection : Collection<MatchGroup?> {\n\n /** Returns a group with the specified [index].\n *\n * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n
*\n * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\n *
corresponds to the entire match.\n *\n public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends
[MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\n
*\n @SinceKotlin("1.1")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\n /**\n *
Returns a named group with the specified [name].\n *\n * @return An instance of [MatchGroup] if the group with the
specified [name] was matched or `null` otherwise.\n *\n * @throws IllegalArgumentException if there is no group
with the specified [name] defined in the regex pattern.\n *\n * @throws UnsupportedOperationException if getting
named groups isn't supported on the current platform.\n *\n public operator fun get(name: String):
MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface
MatchResult {\n\n /** The range of indices in the original string where match was captured. *\n public val range:
IntRange\n /** The substring from the input string captured by this match. *\n public val value: String\n /**\n
* A collection of groups matched by the regular expression.\n *\n * This collection has size of `groupCount +
1` where `groupCount` is the count of groups in the regular expression.\n *\n * Groups are indexed from 1 to
`groupCount` and group with the index 0 corresponds to the entire match.\n *\n public val groups:
MatchGroupCollection\n /**\n * A list of matched indexed group values.\n *\n * This list has size of
`groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n *\n * Groups are indexed
from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * If the group in the
regular expression is optional and there were no match captured by that group,\n * corresponding item in
[groupValues] is an empty string.\n *\n * @sample
samples.text.Regexps.matchDestructuringToGroupValues\n *\n public val groupValues: List<String>\n\n
/**\n * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment
of group values.\n *\n * component1 corresponds to the value of the first group, component2 \u2014 of the
second, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n *\n
public val destructured: Destructured get() = Destructured(this)\n\n /** Returns a new [MatchResult] with the
results for the next match, starting at the position\n * at which the last match ended (at the character after the last
matched character).\n *\n public fun next(): MatchResult?\n}\n\n /**\n * Provides components for
destructuring assignment of group values.\n *\n * [component1] corresponds to the value of the first group,
[component2] \u2014 of the second, and so on.\n *\n * If the group in the regular expression is optional and
there were no match captured by that group,\n * corresponding component value is an empty string.\n *\n *

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@sample samples.text.Regexps.matchDestructuringToGroupValues\n    */\n    public class Destructured internal
constructor(public val match: MatchResult) {\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component1(): String = match.groupValues[1]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component2(): String = match.groupValues[2]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component3(): String = match.groupValues[3]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component4(): String = match.groupValues[4]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component5(): String = match.groupValues[5]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component6(): String = match.groupValues[6]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component7(): String = match.groupValues[7]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component8(): String = match.groupValues[8]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component9(): String = match.groupValues[9]\n    @kotlin.internal.InlineOnly\n    public operator inline fun
component10(): String = match.groupValues[10]\n\n    /**\n    * Returns destructured group values as a list of
strings.\n    * First value in the returned list corresponds to the value of the first group, and so on.\n    */\n    * @sample samples.text.Regexps.matchDestructuringToGroupValues\n    */\n    public fun toList():
List<String> = match.groupValues.subList(1, match.groupValues.size)\n    }\n}","/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport
kotlin.math.abs\n\n@UseExperimental(ExperimentalTime::class)\n\nprivate inline val storageUnit get() =
DurationUnit.NANOSECONDS\n\n/**\n * Represents the amount of time one instant of time is away from another
instant.\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\n *
An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n * To construct a
duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds],
and so on,\n * available on [Int], [Long], and [Double] numeric types.\n * To get the value of this duration
expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or
the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\n\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Suppress("NON_PUBLIC_PRIMARY_CONSTRUCTOR_O
F_INLINE_CLASS")\n\npublic inline class Duration internal constructor(internal val value: Double) :
Comparable<Duration> {\n// TODO: backend fails on init block, wait for KT-28055\n//    init {\n//
require(_value.isNaN().not())\n//    }\n\n    companion object {\n        /** The duration equal to exactly 0 seconds.
*\n        public val ZERO: Duration = Duration(0.0)\n        /** The duration whose value is positive infinity. It is
useful for representing timeouts that should never expire. *\n        public val INFINITE: Duration =
Duration(Double.POSITIVE_INFINITY)\n        /** Converts the given time duration [value] expressed in the
specified [sourceUnit] into the specified [targetUnit]. *\n        public fun convert(value: Double, sourceUnit:
DurationUnit, targetUnit: DurationUnit): Double =\n            convertDurationUnit(value, sourceUnit, targetUnit)\n
}\n\n    // arithmetic operators\n\n    /** Returns the negative of this value. *\n    public operator fun unaryMinus():
Duration = Duration(-value)\n\n    /** Returns a duration whose value is the sum of this and [other] duration values.
*\n    public operator fun plus(other: Duration): Duration = Duration(value + other.value)\n\n    /** Returns a
duration whose value is the difference between this and [other] duration values. *\n    public operator fun
minus(other: Duration): Duration = Duration(value - other.value)\n\n    /** Returns a duration whose value is this
duration value multiplied by the given [scale] number. *\n    public operator fun times(scale: Int): Duration =
Duration(value * scale)\n\n    /** Returns a duration whose value is this duration value multiplied by the given
[scale] number. *\n    public operator fun times(scale: Double): Duration = Duration(value * scale)\n\n    /**
Returns a duration whose value is this duration value divided by the given [scale] number. *\n    public operator fun
div(scale: Int): Duration = Duration(value / scale)\n\n    /** Returns a duration whose value is this duration value
divided by the given [scale] number. *\n    public operator fun div(scale: Double): Duration = Duration(value /
scale)\n\n    /** Returns a number that is the ratio of this and [other] duration values. *\n    public operator fun
div(other: Duration): Double = this.value / other.value\n\n    /** Returns true, if the duration value is less than zero.
*\n    public fun isNegative(): Boolean = value < 0\n\n    /** Returns true, if the duration value is greater than zero.
*/

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*\n public fun isPositive(): Boolean = value > 0\n\n /** Returns true, if the duration value is infinite. *\n
public fun isInfinite(): Boolean = value.isInfinite()\n\n /** Returns true, if the duration value is finite. *\n public
fun isFinite(): Boolean = value.isFinite()\n\n /** Returns the absolute value of this value. The returned value is
always non-negative. *\n public val absoluteValue: Duration get() = if (isNegative()) -this else this\n\n override
fun compareTo(other: Duration): Int = this.value.compareTo(other.value)\n\n // splitting to components\n\n
/**\n * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action]
with these components.\n * The result of [action] is returned as the result of this function.\n *\n * -
`nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than
1_000_000_000;\n * - `seconds` represents the whole number of seconds in this duration, and its absolute value is
less than 60;\n * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less
than 60;\n * - `hours` represents the whole number of hours in this duration, and its absolute value is less than
24;\n * - `days` represents the whole number of days in this duration.\n * If the value doesn't fit in [Int] range,
i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is coerced into that range.\n
*\n public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds:
Int) -> T): T =\n action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent,
nanosecondsComponent)\n\n /**\n * Splits this duration into hours, minutes, seconds, and nanoseconds and
executes the given [action] with these components.\n * The result of [action] is returned as the result of this
function.\n *\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute
value is less than 1_000_000_000;\n * - `seconds` represents the whole number of seconds in this duration, and its
absolute value is less than 60;\n * - `minutes` represents the whole number of minutes in this duration, and its
absolute value is less than 60;\n * - `hours` represents the whole number of hours in this duration.\n * If the
value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is
coerced into that range.\n *\n public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds:
Int, nanoseconds: Int) -> T): T =\n action(inHours.toInt(), minutesComponent, secondsComponent,
nanosecondsComponent)\n\n /**\n * Splits this duration into minutes, seconds, and nanoseconds and executes
the given [action] with these components.\n * The result of [action] is returned as the result of this function.\n
*\n * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less
than 1_000_000_000;\n * - `seconds` represents the whole number of seconds in this duration, and its absolute
value is less than 60;\n * - `minutes` represents the whole number of minutes in this duration.\n * If the value
doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n * it is
coerced into that range.\n *\n public inline fun <T> toComponents(action: (minutes: Int, seconds: Int,
nanoseconds: Int) -> T): T =\n action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\n\n
/**\n * Splits this duration into seconds, and nanoseconds and executes the given [action] with these
components.\n * The result of [action] is returned as the result of this function.\n *\n * - `nanoseconds`
represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration.\n * If the value doesn't fit in [Long] range,
i.e. it's greater than [Long.MAX_VALUE] or less than [Long.MIN_VALUE],\n * it is coerced into that range.\n
*\n public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\n
action(inSeconds.toLong(), nanosecondsComponent)\n\n @PublishedApi\n internal val hoursComponent: Int
get() = (inHours % 24).toInt()\n @PublishedApi\n internal val minutesComponent: Int get() = (inMinutes %
60).toInt()\n @PublishedApi\n internal val secondsComponent: Int get() = (inSeconds % 60).toInt()\n
@PublishedApi\n internal val nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\n\n //
conversion to units\n\n /** Returns the value of this duration expressed as a [Double] number of the specified
[unit]. *\n public fun toDouble(unit: DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\n\n
/**\n * Returns the value of this duration expressed as a [Long] number of the specified [unit].\n *\n * If the
value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for
details.\n *\n public fun toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\n\n /**\n * Returns
the value of this duration expressed as an [Int] number of the specified [unit].\n *\n * If the value doesn't fit in

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the range of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\n  */\n  public
fun toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\n\n  /** The value of this duration expressed as a
[Double] number of days. */\n  public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n\n  /** The
value of this duration expressed as a [Double] number of hours. */\n  public val inHours: Double get() =
toDouble(DurationUnit.HOURS)\n\n  /** The value of this duration expressed as a [Double] number of minutes.
*/\n  public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\n\n  /** The value of this duration
expressed as a [Double] number of seconds. */\n  public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n  /** The value of this duration expressed as a [Double] number of
milliseconds. */\n  public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)\n\n  /**
The value of this duration expressed as a [Double] number of microseconds. */\n  public val inMicroseconds:
Double get() = toDouble(DurationUnit.MICROSECONDS)\n\n  /** The value of this duration expressed as a
[Double] number of nanoseconds. */\n  public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n  // shortcuts\n\n  /**\n   * Returns the value of this duration
expressed as a [Long] number of nanoseconds.\n   *\n   * If the value doesn't fit in the range of [Long] type, it is
coerced into that range, see the conversion [Double.toLong] for details.\n   *\n   * The range of durations that can
be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n   */\n  public fun
toLongNanoseconds(): Long = toLong(DurationUnit.NANOSECONDS)\n\n  /**\n   * Returns the value of this
duration expressed as a [Long] number of milliseconds.\n   *\n   * The value is coerced to the range of [Long]
type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n   *\n   * The range of
durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292 million years.\n   */\n  public fun toLongMilliseconds(): Long = toLong(DurationUnit.MILLISECONDS)\n\n  /**\n   * Returns a
string representation of this duration value expressed in the unit which yields the most compact and readable number
value.\n   *\n   * Special cases:\n   * - zero duration is formatted as `0s`\n   * - the infinite duration is
formatted as `Infinity` without unit\n   * - very small durations (less than 1e-15 s) are expressed in seconds and
formatted in scientific notation\n   * - very big durations (more than 1e+7 days) are expressed in days and
formatted in scientific notation\n   *\n   * @return the value of duration in the automatically determined unit
followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n   *\n   * @sample
samples.time.Durations.toStringDefault\n   */\n  override fun toString(): String = when {\n    isInfinite() ->
value.toString()\n    value == 0.0 -> `0s`\n    else -> {\n      val absNs = absoluteValue.inNanoseconds\n
      var scientific = false\n      var maxDecimals = 0\n      val unit = when {\n        absNs < 1e-6 ->
DurationUnit.SECONDS.also { scientific = true }\n        absNs < 1 -> DurationUnit.NANOSECONDS.also {
maxDecimals = 7 }\n        absNs < 1e3 -> DurationUnit.NANOSECONDS\n        absNs < 1e6 ->
DurationUnit.MICROSECONDS\n        absNs < 1e9 -> DurationUnit.MILLISECONDS\n        absNs <
1000e9 -> DurationUnit.SECONDS\n        absNs < 60_000e9 -> DurationUnit.MINUTES\n        absNs <
3600_000e9 -> DurationUnit.HOURS\n        absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n        else ->
DurationUnit.DAYS.also { scientific = true }\n      }\n      val value = toDouble(unit)\n      when {\n
        scientific -> formatScientific(value)\n        maxDecimals > 0 -> formatUpToDecimals(value,
maxDecimals)\n        else -> formatToExactDecimals(value, precision(abs(value)))\n      } +
unit.shortName()\n    }\n  }\n\n  private fun precision(value: Double): Int = when {\n    value < 1 -> 3\n
value < 10 -> 2\n    value < 100 -> 1\n    else -> 0\n  }\n\n  /**\n   * Returns a string representation of this
duration value expressed in the given [unit]\n   * and formatted with the specified [decimals] number of digits after
decimal point.\n   *\n   * Special cases:\n   * - the infinite duration is formatted as `Infinity` without unit\n
*/\n  * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`,
`s`, `ms`, `us`, or `ns`.\n  * @throws IllegalArgumentException if [decimals] is less than zero.\n  * @sample
samples.time.Durations.toStringDecimals\n  */\n  public fun toString(unit: DurationUnit, decimals: Int
= 0): String {\n    require(decimals >= 0) { "decimals must be not negative, but was $decimals" }\n    if
(isInfinite()) return value.toString()\n    val number = toDouble(unit)\n    return when {\n      abs(number) <
1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n      else -> formatScientific(number)\n    }

```

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    } + unit.shortName()\n    }\n\n    /**\n     * Returns an ISO-8601 based string representation of this duration.\n     *\n     * The returned value is presented in the format `PTm>s.fS`, where `h`, `m`, `s` are the integer components of this duration (see [toComponents])\n     * and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either\n     * 0, 3, 6, or 9 decimal digits.\n     *\n     * If the hours component absolute value of this duration is greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE],\n     * so the infinite duration is formatted as `\"PT2147483647H\".\n     *\n     * Negative durations are indicated with the sign `-` in the beginning of the returned string, for example, `\"-PT5M30S\".\n     *\n     * @sample samples.time.Durations.toIsoString\n     */\n\n    @UseExperimental(ExperimentalStdlibApi::class)\n    public fun toIsoString(): String = buildString {\n        if (isNegative()) append('-')\n        append(\"PT\")\n        absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n            val hasHours = hours != 0\n            val hasSeconds = seconds != 0 || nanoseconds != 0\n            val hasMinutes = minutes != 0 || (hasSeconds && hasHours)\n            if (hasHours) {\n                append(hours).append('H')\n            }\n            if (hasMinutes) {\n                append(minutes).append('M')\n            }\n            if (hasSeconds || (!hasHours && !hasMinutes)) {\n                append(seconds)\n                if (nanoseconds != 0) {\n                    append('.')\n                    val nss = nanoseconds.toString().padStart(9, '0')\n                    when {\n                        nanoseconds % 1_000_000 == 0 -> appendRange(nss, 0, 3)\n                        nanoseconds % 1_000 == 0 -> appendRange(nss, 0, 6)\n                        else -> append(nss)\n                    }\n                }\n            }\n            append('S')\n        }\n    }\n\n    // constructing from number of units\n    // extension functions\n    /**\n     * Returns a [Duration] equal to this [Int] number of the specified [unit].\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public fun Int.toDuration(unit: DurationUnit): Duration =\n        toDouble().toDuration(unit)\n    /**\n     * Returns a [Duration] equal to this [Long] number of the specified [unit].\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public fun Long.toDuration(unit: DurationUnit): Duration =\n        toDouble().toDuration(unit)\n    /**\n     * Returns a [Duration] equal to this [Double] number of the specified [unit].\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public fun Double.toDuration(unit: DurationUnit): Duration =\n        Duration(convertDurationUnit(this, unit, storageUnit))\n    // constructing from number of units\n    // extension properties\n    /**\n     * Returns a [Duration] equal to this [Int] number of nanoseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Int.nanoseconds get() =\n        toDuration(DurationUnit.NANOSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Long] number of nanoseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Long.nanoseconds get() =\n        toDuration(DurationUnit.NANOSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Double] number of nanoseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Double.nanoseconds get() =\n        toDuration(DurationUnit.NANOSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Int] number of microseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Int.microseconds get() =\n        toDuration(DurationUnit.MICROSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Long] number of microseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Long.microseconds get() =\n        toDuration(DurationUnit.MICROSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Double] number of microseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Double.microseconds get() =\n        toDuration(DurationUnit.MICROSECONDS)\n    /**\n     * Returns a [Duration] equal to this [Int] number of milliseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Int.milliseconds get() =\n        toDuration(DurationUnit.MILLISECONDS)\n    /**\n     * Returns a [Duration] equal to this [Long] number of milliseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Long.milliseconds get() =\n        toDuration(DurationUnit.MILLISECONDS)\n    /**\n     * Returns a [Duration] equal to this [Double] number of milliseconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Double.milliseconds get() =\n        toDuration(DurationUnit.MILLISECONDS)\n    /**\n     * Returns a [Duration] equal to this [Int] number of seconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Int.seconds get() =\n        toDuration(DurationUnit.SECONDS)\n    /**\n     * Returns a [Duration] equal to this [Long] number of seconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Long.seconds get() =\n        toDuration(DurationUnit.SECONDS)\n    /**\n     * Returns a [Duration] equal to this [Double] number of seconds.\n     */\n    @SinceKotlin(\"1.3\")\n    @ExperimentalTime\n    public val Double.seconds get() =\n        toDuration(DurationUnit.SECONDS)\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Double] number of minutes.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.minutes get() =
toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Double] number of hours.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.hours get() =
toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Int.days get() =
toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Long.days get() =
toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic val Double.days get() =
toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified [duration] value
multiplied by this number. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/** Returns a duration whose value
is the specified [duration] value multiplied by this number.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun
Double.times(duration: Duration): Duration = duration * this\n\n\ninternal expect fun
formatToExactDecimals(value: Double, decimals: Int): String\n\ninternal expect fun formatUpToDecimals(value:
Double, decimals: Int): String\n\ninternal expect fun formatScientific(value: Double): String", "/*\n * Copyright 2010-
2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName("DurationUnitKt")\n\n\npackage
kotlin.time\n\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *
*\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n *\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic expect enum class DurationUnit {\n /**\n
* Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n /*\n NANOSECONDS,\n
/**\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n /*\n
MICROSECONDS,\n /**\n * Time unit representing one millisecond, which is 1/1000 of a second.\n /*\n
MILLISECONDS,\n /**\n * Time unit representing one second.\n /*\n SECONDS,\n /**\n * Time unit
representing one minute.\n /*\n MINUTES,\n /**\n * Time unit representing one hour.\n /*\n
HOURS,\n /**\n * Time unit representing one day, which is always equal to 24 hours.\n /*\n
DAYS;\n}\n\n\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified
[targetUnit]. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n\ninternal expect fun convertDurationUnit(value:
Double, sourceUnit: DurationUnit, targetUnit: DurationUnit):
Double\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n\ninternal fun DurationUnit.shortName(): String = when
(this) {\n DurationUnit.NANOSECONDS -> "ns"\n DurationUnit.MICROSECONDS -> "us"\n
DurationUnit.MILLISECONDS -> "ms"\n DurationUnit.SECONDS -> "s"\n DurationUnit.MINUTES ->
"m"\n DurationUnit.HOURS -> "h"\n DurationUnit.DAYS -> "d"\n}\n", "/*\n * Copyright 2010-2019
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.time\n\nimport

```



```

kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard
library API for measuring time and working with durations.\n\n * > Note that this API is in a preview state and has
a very high chance of being changed in the future.\n\n * Do not use it if you develop a library since your library will
become binary incompatible\n\n * with the future versions of the standard library.\n\n * Any usage of a declaration
annotated with `@ExperimentalTime` must be accepted either by\n\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n\n * or by using the compiler argument `-Xopt-
in=kotlin.time.ExperimentalTime`.\n\n */\n@Suppress("DEPRECATION")\n@Experimental(level =
Experimental.Level.ERROR)\n@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n
CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n
VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n
PROPERTY_SETTER,\n TYPEALIAS)\n\n@SinceKotlin("1.3")\n\npublic annotation class
ExperimentalTime\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n\n *
The only operation provided by the time source is [markNow]. It returns a [TimeMark], which can be used to
query the elapsed time later.\n\n * @see [measureTime]\n\n * @see [measureTimedValue]\n\n */\n\n@SinceKotlin("1.3")\n\n@ExperimentalTime\n\npublic interface TimeSource {\n\n    /**\n     * Marks a point in
time on this time source.\n\n     * The returned [TimeMark] instance encapsulates the captured time point and
allows querying\n\n     * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n\n     */\n\n    public fun markNow(): TimeMark\n\n    /**\n     * The most precise time source available in the platform.\n\n     *
This time source returns its readings from a source of monotonic time when it is available in a target platform,\n\n
* and resorts to a non-monotonic time source otherwise.\n\n     */\n\n    public object Monotonic : TimeSource by
MonotonicTimeSource {\n\n        override fun toString(): String = MonotonicTimeSource.toString()\n\n    }\n\n    public companion object {\n\n        }\n\n    }\n\n\n    /**\n     * Represents a time point notched on a particular [TimeSource].
Remains bound to the time source it was taken from\n\n     * and allows querying for the duration of time elapsed from
that point (see the function [elapsedNow]).\n\n     */\n\n    @SinceKotlin("1.3")\n\n    @ExperimentalTime\n\n    public abstract class
TimeMark {\n\n        /**\n         * Returns the amount of time passed from this mark measured with the time source from
which this mark was taken.\n\n         * Note that the value returned by this function can change on subsequent
invocations.\n\n         */\n\n        public abstract fun elapsedNow(): Duration\n\n        /**\n         * Returns a time mark on the same
time source that is ahead of this time mark by the specified [duration].\n\n         * The returned time mark is more
_late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n\n         */\n\n        public open
operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n        /**\n         * Returns a
time mark on the same time source that is behind this time mark by the specified [duration].\n\n         * The
returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is
negative.\n\n         */\n\n        public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\n        /**\n
         * Returns true if this time mark has passed according to the time source from which this mark was taken.\n\n
         * Note that the value returned by this function can change on subsequent invocations.\n\n         * If the time source is
monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point
of the time source.\n\n         */\n\n        public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n        /**\n
         * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n\n
         * Note that the value returned by this function can change on subsequent invocations.\n\n         * If the time source is
monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point
of the time source.\n\n         */\n\n        public fun hasNotPassedNow(): Boolean =
elapsedNow().isNegative()\n\n    }\n\n\n    @ExperimentalTime\n    @SinceKotlin("1.3")\n    @kotlin.internal.InlineOnly\n    @
Deprecated("\n    \nSubtracting one TimeMark from another is not a well defined operation because these time marks
could have been obtained from the different time sources.\n    \n    level = DeprecationLevel.ERROR)\n\n    public inline
operator fun TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is

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disallowed.}\n\n@ExperimentalTime\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Deprecated(\n
"Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.}\n    level = DeprecationLevel.ERROR\n)\n\npublic inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is
disallowed.}\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment:
Duration) : TimeMark() {\n    override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n
override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment +
duration)\n}\n\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource interface
instead.}\", ReplaceWith("TimeSource", "kotlin.time.TimeSource"))\npublic typealias Clock =
TimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeMark class instead.}\",
ReplaceWith("TimeMark", "kotlin.time.TimeMark"))\npublic typealias ClockMark = TimeMark\n"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.3")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource :
TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values
in the specified [unit].\n */\n * @property unit The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method should be overridden to return the current
reading of the time source expressed as a [Long] number\n     * in the unit specified by the [unit] property.\n     */\n
protected abstract fun read(): Long\n\n    private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n        override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n        override fun
plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override
fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to
implement time sources that return their readings as [Double] values in the specified [unit].\n */\n * @property unit
The unit in which this time source's readings are expressed.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val
unit: DurationUnit) : TimeSource {\n    /**\n     * This protected method should be overridden to return the current
reading of the time source expressed as a [Double] number\n     * in the unit specified by the [unit] property.\n
*/\n
protected abstract fun read(): Double\n\n    private class DoubleTimeMark(private val startedAt: Double,
private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n        override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n        override fun
plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)\n    }\n\n    override
fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source
that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n */\n * The current
reading value can be advanced by the specified duration amount with the operator [plusAssign]:\n */\n * val
timeSource = TestTimeSource()\n * timeSource += 10.seconds\n * ```\n */\n * Implementation note: the current
reading value is stored as a [Long] number of nanoseconds,\n * thus it's capable to represent a time range of
approximately \u00b01292 years.\n * Should the reading value overflow as the result of [plusAssign] operation, an
[IllegalStateException] is thrown.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic class TestTimeSource
: AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n    private var reading: Long = 0L\n\n    override fun
read(): Long = reading\n\n    /**\n     * Advances the current reading value of this time source by the
specified [duration].\n     */\n     * [duration] value is rounded down towards zero when converting it to a [Long]
number of nanoseconds.\n     * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't
advance because\n     * the duration value is rounded to zero nanoseconds.\n     */\n     * @throws
IllegalStateException when the reading value overflows as the result of this operation.\n     */\n     public operator fun
plusAssign(duration: Duration) {\n        val delta = duration.toDouble(unit)\n        val longDelta = delta.toLong()\n
        reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n            // when delta

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fits in long, add it as long\n        val newReading = reading + longDelta\n        if (reading xor longDelta >= 0
&& reading xor newReading < 0) overflow(duration)\n        newReading\n    } else {\n        // when delta is
greater than long, add it as double\n        val newReading = reading + delta\n        if (newReading >
Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n        newReading.toLong()\n    }\n}\n\n private fun overflow(duration: Duration) {\n    throw IllegalStateException("TestTimeSource will
overflow if its reading ${reading}ns is advanced by $duration.")\n}\n}\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TimeSource.Monotonic instead.",
ReplaceWith("TimeSource.Monotonic", "kotlin.time.TimeSource"))\npublic typealias MonoClock =
TimeSource.Monotonic\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
AbstractLongTimeSource instead.", ReplaceWith("AbstractLongTimeSource",
"kotlin.time.AbstractLongTimeSource"))\npublic typealias AbstractLongClock =
AbstractLongTimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
AbstractDoubleTimeSource instead.", ReplaceWith("AbstractDoubleTimeSource",
"kotlin.time.AbstractDoubleTimeSource"))\npublic typealias AbstractDoubleClock =
AbstractDoubleTimeSource\n\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use TestTimeSource
instead.", ReplaceWith("TestTimeSource", "kotlin.time.TestTimeSource"))\npublic typealias TestClock =
TestTimeSource\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n * The elapsed time is measured with [TimeSource.Monotonic].\n
*/\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n
contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return
TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n * Executes the given function [block] and returns the
duration of elapsed time interval.\n * The elapsed time is measured with the specified `this` [TimeSource]
instance.\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: ()
-> Unit): Duration {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n    val
mark = markNow()\n    block()\n    return mark.elapsedNow()\n}\n\n/**\n * Data class representing a result of
executing an action, along with the duration of elapsed time interval.\n * The elapsed time is measured with
the specified `this` [TimeSource] instance.\n * @property value the result of the
action.\n * @property duration the time elapsed to execute the action.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration:
Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing
both\n * the result of the function execution and the duration of elapsed time interval.\n * The elapsed time is
measured with [TimeSource.Monotonic].\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {\n    contract {\n        callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n    }\n\n    return
TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an
instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time
interval.\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: ()
-> T): TimedValue<T> {\n    contract {\n        callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n\n
val mark = markNow()\n    val result = block()\n    return TimedValue(result, mark.elapsedNow())\n}\n", /*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Returns a hash code value for the object or zero if the object
is `null`.\n * @see Any.hashCode\n */\n@SinceKotlin("1.3")\n@InlineOnly\npublic inline fun
Any?.hashCode(): Int = this?.hashCode() ?: 0\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard

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library.\n *\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\n *\n * @constructor Creates a version from all three components.\n *\n@SinceKotlin("1.1")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\n    /**\n     * Creates a version from [major] and [minor] components, leaving [patch] component zero.\n     *\n     * public constructor(major: Int, minor: Int) : this(major, minor, 0)\n     * private val version = versionOf(major, minor, patch)\n     * private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n     *     require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n     *         \"Version components are out of range: $major.$minor.$patch\"\n     *     }\n     *     return major.shl(16) + minor.shl(8) + patch\n     * }\n     * /**\n     * Returns the string representation of this version.\n     *\n     * override fun toString(): String = \"$major.$minor.$patch\"\n     * override fun equals(other: Any?): Boolean {\n     *     if (this === other) return true\n     *     val otherVersion = (other as? KotlinVersion) ?: return false\n     *     return this.version == otherVersion.version\n     * }\n     * override fun hashCode(): Int = version\n     * override fun compareTo(other: KotlinVersion): Int = version - other.version\n     * /**\n     * Returns `true` if this version is not less than the version specified\n     * * with the provided [major] and [minor] components.\n     *\n     *\n     * public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n     * this.major > major || (this.major == major &&\n     *     this.minor >= minor)\n     * /**\n     * Returns `true` if this version is not less than the version specified\n     * * with the provided [major], [minor] and [patch] components.\n     *\n     *\n     * public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n     * this.major > major || (this.major == major &&\n     *     (this.minor > minor || this.minor == minor &&\n     *         this.patch >= patch))\n     * companion object {\n     *     /**\n     *      * Maximum value a version component can have, a constant value 255.\n     *     *\n     *     // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\n     *     public const val MAX_COMPONENT_VALUE = 255\n     *     /**\n     *      * Returns the current version of the Kotlin standard library.\n     *     *\n     *     @kotlin.jvm.JvmField\n     *     public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 70) // value is written here automatically during build\n     * }\n     * /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     *\n     *\n     * @file:kotlin.jvm.JvmName("LateinitKt")\n     * @file:Suppress("unused")\n     * \n     * \n     * package kotlin\n     * \n     * import kotlin.internal.InlineOnly\n     * \n     * import kotlin.internal.AccessibleLateinitPropertyLiteral\n     * \n     * import kotlin.reflect.KProperty0\n     * \n     * /**\n     * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\n     *\n     *\n     * * Cannot be used in an inline function, to avoid binary compatibility issues.\n     *\n     *\n     * @SinceKotlin("1.2")\n     * @InlineOnly\n     * \n     * \n     * inline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\n     *     get() = throw NotImplementedError("Implementation is intrinsic")\n     * \n     * /**\n     * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n     * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n     *\n     *\n     * @file:kotlin.jvm.JvmName("LazyKt")\n     * @file:kotlin.jvm.JvmMultifileClass\n     * \n     * \n     * package kotlin\n     * \n     * import kotlin.reflect.KProperty\n     * \n     * /**\n     * Represents a value with lazy initialization.\n     *\n     *\n     * * To create an instance of [Lazy] use the [lazy] function.\n     *\n     *\n     * public interface Lazy<out T> {\n     *     /**\n     *      * Gets the lazily initialized value of the current Lazy instance.\n     *     * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n     *     *\n     *     public val value: T\n     *     /**\n     *      * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n     *     * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n     *     *\n     *     public fun isInitialized(): Boolean\n     * }\n     * /**\n     * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n     *\n     *\n     * public fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n     * \n     * /**\n     * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n     *\n     *\n     * * This extension allows to use instances of Lazy for property delegation:\n     * * `val property: String by lazy { initializer }`\n     *\n     *\n     * @kotlin.internal.InlineOnly\n     * \n     * \n     * public inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\n     * \n     * /**\n     * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n     *\n     *\n     * public enum class LazyThreadSafetyMode {\n     *     /**\n     *      * Locks are used to ensure

```

that only a single thread can initialize the [Lazy] instance.\n *^n SYNCHRONIZED,\n\n /**\n * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n * but only the first returned value will be used as the value of [Lazy] instance.\n *^n PUBLICATION,\n\n /**\n * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\n *\n * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n *^n NONE,\n\n }\n\n\ninternal object UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\n\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n private var initializer: (() -> T)? = initializer\n private var _value: Any? = UNINITIALIZED_VALUE\n\n override val value: T\n get() {\n if (_value === UNINITIALIZED_VALUE) {\n _value = initializer!!()\n initializer = null\n }\n @Suppress("UNCHECKED_CAST")\n return _value as T\n }\n\n override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\n\n private fun writeReplace(): Any = InitializedLazyImpl(value)\n}\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\n\n override fun isInitialized(): Boolean = true\n\n override fun toString(): String = value.toString()\n}\n\n", /*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

```
*^n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("NumbersKt")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n *\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateLeft(bitCount: Int): Int\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n *\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateRight(bitCount: Int): Int\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n *\n *^n\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun
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Long.countTrailingZeroBits(): Int\n\n**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.takeHighestOneBit(): Long\n\n**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.takeLowestOneBit(): Long\n\n**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateLeft(bitCount: Int): Long\n\n**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateRight(bitCount: Int): Long\n\n**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n**\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\n(toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n

*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\npublic fun Byte.rotateRight(bitCount: Int): Byte =\n(toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n**\n * Counts the number of set bits in the binary representation of this [Short] number.\n

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*^@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun
Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of consecutive most
significant bits that are zero in the binary representation of this [Short] number.\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun
Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS -
Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
representation of this [Short] number.\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun
Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a number
having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this number
is zero.\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline fun
Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this
number is zero.\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi@kotlin.internal.InlineOnly\npublic inline
fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n/**\n * Rotates the binary
representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi\npublic fun Short.rotateLeft(bitCount: Int): Short =\n
(toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the
binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*^@SinceKotlin("1.3")@ExperimentalStdlibApi\npublic fun Short.rotateRight(bitCount: Int): Short =\n
(toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n\n", "/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport
kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("IN
VISIBLE_MEMBER", "INVISIBLE_REFERENCE")\n@RequireKotlin("1.2.30", level =
DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun
<R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n\n", "/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n
*^@n@file:kotlin.jvm.JvmName("TuplesKt")\n\npackage kotlin\n\n/**\n * Represents a generic pair of two
values.\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits
value semantics, i.e. two pairs are equal if both components are equal.\n * An example of decomposing it into
values:\n * @sample samples.misc.Tuples.pairDestructuring\n * @param A type of the first value.\n * @param
B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor
Creates a new instance of Pair.\n */\n\npublic data class Pair<out A, out B>(\n public val first: A,\n public val
second: B\n) : Serializable {\n\n /**\n * Returns string representation of the [Pair] including its [first] and
[second] values.\n *^@n public override fun toString(): String = "$first, $second")\n\n\n/**\n * Creates a tuple
of type [Pair] from this and [that].\n * This can be useful for creating [Map] literals with less noise, for
example:\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\n\npublic infix fun <A, B>

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A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample
samples.misc.Tuples.pairToList\n */\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n *
Represents a triad of values\n */\n * There is no meaning attached to values in this class, it can be used for any
purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n * An
example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n */\n * @param A
type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property
first First value.\n * @property second Second value.\n * @property third Third value.\n */\npublic data class
Triple<out A, out B, out C>(\n    public val first: A,\n    public val second: B,\n    public val third: C\n) : Serializable
{\n\n    /**\n     * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n
*/\n     *\n     * public override fun toString(): String = \"($first, $second, $third)\"\n\n}\n\n/**\n * Converts this triple into a
list.\n * @sample samples.misc.Tuples.tripleToList\n */\npublic fun <T> Triple<T, T, T>.toList(): List<T> =
listOf(first, second, third)\n\n",\n\n/**\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic class UIntRange(start: UInt, endInclusive: UInt)
: UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n    override val start: UInt get() = first\n    override
val endInclusive: UInt get() = last\n    override fun contains(value: UInt): Boolean = first <= value && value <=
last\n    override fun isEmpty(): Boolean = first > last\n    override fun equals(other: Any?): Boolean =\n        other is UIntRange && (isEmpty() && other.isEmpty()) ||\n            first == other.first && last == other.last\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n    override fun
toString(): String = \"$first..$last\"\n\n    companion object {\n        /**\n         * An empty range of values of type UInt.\n
*/\n        public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n    }\n\n}\n\n/**\n * A
progression of values of type `UInt`.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic open
class UIntProgression\ninternal constructor(\n    start: UInt,\n    endInclusive: UInt,\n    step: Int\n) : Iterable<UInt>
{\n    init {\n        if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n        if
(step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE
to avoid overflow on negation.")\n    }\n\n    /**\n     * The first element in the progression.\n
*/\n    public val first: UInt = start\n\n    /**\n     * The last element in the progression.\n
*/\n    public val last: UInt =
getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n
*/\n    public val step: Int = step\n\n    override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\n\n    /**
     * Checks if the progression is empty.\n
*/\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first <
last\n\n    override fun equals(other: Any?): Boolean =\n        other is UIntProgression && (isEmpty() &&
other.isEmpty()) ||\n            first == other.first && last == other.last && step == other.step\n\n    override fun
hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n    override fun
toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n    companion
object {\n        /**\n         * Creates UIntProgression within the specified bounds of a closed range.\n
*/\n        * The
progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the
specified [step].\n        * In order to go backwards the [step] must be negative.\n        * [step] must be
greater than `Int.MIN_VALUE` and not equal to zero.\n
*/\n        public fun fromClosedRange(rangeStart:
UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n    }\n\n}\n\n/**\n * An
iterator over a progression of values of type `UInt`.\n
*/\n * @property step the number by which the value is
incremented on each step.\n
*/\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\nprivate class
UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\n    private val finalElement = last\n    private
var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step = step.toUInt() // use 2-
complement math for negative steps\n    private var next = if (hasNext) first else finalElement\n\n    override fun
hasNext(): Boolean = hasNext\n\n    override fun nextUInt(): UInt {\n        val value = next\n        if (value ==
finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        }\n    }\n}

```



```

the value is incremented on each step.\n *^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\nprivate class
ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n    private val finalElement =
last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step =
step.toULong() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else
finalElement\n    override fun hasNext(): Boolean = hasNext\n    override fun nextULong(): ULong {\n        val
value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n
            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n}\n"/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n/**\n *
Returns the smaller of two values.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a:
UInt, b: UInt): UInt {\n    return minOf(a, b)\n}\n"/*\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a:
ULong, b: ULong): ULong {\n    return minOf(a, b)\n}\n"/*\n * Returns the greater of two values.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a:
UInt, b: UInt): UInt {\n    return maxOf(a, b)\n}\n"/*\n * Returns the greater of two values.\n
*^@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a:
ULong, b: ULong): ULong {\n    return maxOf(a, b)\n}\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UNumbersKt")\npackage
kotlin\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n"/*\n * Counts the number of consecutive
most significant bits that are zero in the binary representation of this [UInt] number.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n"/*\n * Counts the
number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n"/*\n * Returns a number
having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number
is zero.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toInt()\n"/*\n * Returns a
number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this
number is zero.\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toInt()\n"/*\n * Rotates the
binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant
bits pushed out from the left side reenter the number as the least significant bits on the right side.\n * Rotating
the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *
`number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*^@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl
y\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toInt()\n"/*\n * Rotates
the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least
significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *
Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns

```

the same number, or more generally
`number.rotateRight(n) == number.rotateRight(n % 32)`
`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()`
Counts the number of set bits in the binary representation of this [ULong] number.

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun ULong.countOneBits(): Int = toLong().countOneBits()`
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`
`public inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()`
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`
`public inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()`
Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number, or zero, if this number is zero.

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()`
Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number, or zero, if this number is zero.

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()`
Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:
`number.rotateLeft(-n) == number.rotateRight(n)`
Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
`number.rotateLeft(n) == number.rotateLeft(n % 64)`

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()`
Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:
`number.rotateRight(-n) == number.rotateLeft(n)`
Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally
`number.rotateRight(n) == number.rotateRight(n % 64)`

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()`
Counts the number of set bits in the binary representation of this [UByte] number.

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun UByte.countOneBits(): Int = toUInt().countOneBits()`
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`
`public inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()`
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`
`public inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()`
Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number, or zero, if this number is zero.

`@SinceKotlin("1.3")@ExperimentalStdlibApi@ExperimentalUnsignedTypes@kotlin.internal.InlineOnly`
`public inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()`
Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number, or zero, if

this number is zero.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [UShort] number.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n *\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnl\ny\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n
```

```

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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage kotlin.internal\n\n// (a - b) mod
c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n    val ac = a % c\n    val bc = b % c\n    return if
(ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n
val ac = a % c\n    val bc = b % c\n    return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final
element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from
[start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No
validation on passed parameters is performed. The given parameters should satisfy the condition:\n * - either
`step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the
progression\n * @param end ending bound for the progression\n * @param step increment, or difference of
successive elements in the progression\n * @return the final element of the progression\n * @suppress\n
*\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step:
Int): UInt = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n
step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n    else -> throw
kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/**\n * Calculates the final element of a bounded
arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case
of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n * No validation on passed
parameters is performed. The given parameters should satisfy the condition:\n * - either `step > 0` and `start <=
end`,\n * - or `step < 0` and `start >= end`.\n * @param start first element of the progression\n * @param end
ending bound for the progression\n * @param step increment, or difference of successive elements in the
progression\n * @return the final element of the progression\n * @suppress\n
*\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal fun getProgressionLastElement(start: ULong, end: ULong,
step: Long): ULong = when {\n    step > 0 -> if (start >= end) end else end - differenceModulo(end, start,
step.toULong())\n    step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n
else -> throw kotlin.IllegalArgumentException("Step is zero.")\n}\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string
representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte]
value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this
[Short] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this
[Int] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun
UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string representation of this
[Long] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix
for number to string conversion.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n/**\n * Parses the string
as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed
[UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid

```

```

representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(radix:
Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(): UShort =
toUShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(radix: Int): UShort =
toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(): UInt = toUIntOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(radix: Int): UInt =
toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(): ULong =
toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(radix: Int): ULong =
toULongOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UByte] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUByteOrNull(): UByte? =
toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if
the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun String.toUByteOrNull(radix: Int): UByte? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >
UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number
and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUShortOrNull(): UShort? =
toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if
the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun String.toUShortOrNull(radix: Int): UShort? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int >
UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and
returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toUIntOrNull(): UInt? =
toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the
string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a
valid radix for string to number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun String.toUIntOrNull(radix: Int): UInt? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0)
return null\n\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar
< '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val
limitForMaxRadix = 119304647u // limit / 36\n    var limitBeforeMul = limitForMaxRadix\n    val uradix =
radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if

```

```

(digit < 0) return null\n    if (result > limitBeforeMul) {\n        if (limitBeforeMul == limitForMaxRadix) {\n            limitBeforeMul = limit / uradix\n        }\n    } else {\n        return null\n    }\n\n    result *= uradix\n    val beforeAdding = result\n    result += digit.toUInt()\n    if (result < beforeAdding) return null // overflow has happened\n}\n\nreturn result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n * @throws\n * IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(radix: Int): ULong?\n{\n    checkRadix(radix)\n    val length = this.length\n    if (length == 0) return null\n    val limit: ULong = ULong.MAX_VALUE\n    val start: Int\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 512409557603043100uL // limit / 36\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toULong()\n    var result = 0uL\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n            }\n        }\n    } else {\n        return null\n    }\n\n    result *= uradix\n    val beforeAdding = result\n    result += digit.toUInt()\n    if (result < beforeAdding) return null // overflow has happened\n}\n\nreturn result\n}\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport\nkotlin.annotation.AnnotationTarget\n\nimport kotlin.internal.RequireKotlin\n\nimport\nkotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned\n * types, including those types themselves.\n */\n * Usages of such API will be reported as warnings unless an explicit\n * opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`\n * or with the `-Xopt-in=kotlin.ExperimentalUnsignedTypes`\n * compiler option is given.\n */\n * It's recommended to propagate the\n * experimental status to the API that depends on unsigned types by annotating it with this annotation.\n */\n@Suppress("DEPRECATION")\n@Experimental(level =\nExperimental.Level.WARNING)\n@RequiresOptIn(level =\nRequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS,\nPROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,\nPROPERTY_GETTER, PROPERTY_SETTER,\nTYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =\nRequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code\n * is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("MathKt")\n\npackage\nkotlin.math\n\n// constants, can't use them from nativeMath as they are not constants there\n/**\n * Ratio of the\n * circumference\n * of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin("1.2")\npublic const val PI:\nDouble = 3.141592653589793\n/**\n * Base of the natural logarithms, approximately 2.71828.\n */\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====\nDouble Math =====\n\n/**\n * Computes the sine of the angle [x]\n * given in radians.\n */\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic\nexpect fun sin(x: Double): Double\n\n/**\n * Computes the cosine of the angle [x]\n * given in radians.\n */\n * Special\n * cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic\nexpect fun cos(x: Double):\nDouble\n\n/**\n * Computes the tangent of the angle [x]\n * given in radians.\n */\n * Special cases:\n * - `tan(NaN|+Inf|-\n * Inf)` is `NaN`\n */\n@SinceKotlin("1.2")\npublic\nexpect fun tan(x: Double): Double\n\n/**\n * 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: $-\text{asin}(x)$ is NaN, when $|\text{abs}(x)| > 1$ or x is NaN

`fun asin(x: Double): Double` Computes the arc cosine of the value [x]; the returned value is an angle in the range from 0.0 to π radians. Special cases: $-\text{acos}(x)$ is NaN, when $|\text{abs}(x)| > 1$ or x is NaN

`fun atan(x: Double): Double` 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: $-\text{atan}(\text{NaN})$ is NaN

`fun atan2(y: Double, x: Double): Double` Returns the angle θ of the polar coordinates (r, θ) that correspond to the rectangular coordinates (x, y) by computing the arc tangent of the value y / x ; the returned value is an angle in the range from $-\pi$ to π radians. Special cases: $-\text{atan2}(0.0, 0.0)$ is 0.0 $-\text{atan2}(0.0, x)$ is 0.0 for $x > 0$ and π for $x < 0$ $-\text{atan2}(-0.0, x)$ is -0.0 for $x > 0$ and $-\pi$ for $x < 0$ $-\text{atan2}(y, +\text{Inf})$ is 0.0 for $0 < y < +\text{Inf}$ and -0.0 for $-\text{Inf} < y < 0$ $-\text{atan2}(y, -\text{Inf})$ is π for $0 < y < +\text{Inf}$ and $-\pi$ for $-\text{Inf} < y < 0$ $-\text{atan2}(y, 0.0)$ is $\pi/2$ for $y > 0$ and $-\pi/2$ for $y < 0$ $-\text{atan2}(+\text{Inf}, x)$ is $\pi/2$ for finite x $-\text{atan2}(-\text{Inf}, x)$ is $-\pi/2$ for finite x $-\text{atan2}(\text{NaN}, x)$ and $\text{atan2}(y, \text{NaN})$ is NaN

`fun sinh(x: Double): Double` Computes the hyperbolic sine of the value [x]. Special cases: $-\text{sinh}(\text{NaN})$ is NaN $-\text{sinh}(+\text{Inf})$ is $+\text{Inf}$ $-\text{sinh}(-\text{Inf})$ is $-\text{Inf}$

`fun cosh(x: Double): Double` Computes the hyperbolic cosine of the value [x]. Special cases: $-\text{cosh}(\text{NaN})$ is NaN $-\text{cosh}(+\text{Inf})$ is $+\text{Inf}$ $-\text{cosh}(-\text{Inf})$ is $+\text{Inf}$

`fun tanh(x: Double): Double` Computes the hyperbolic tangent of the value [x]. Special cases: $-\text{tanh}(\text{NaN})$ is NaN $-\text{tanh}(+\text{Inf})$ is 1.0 $-\text{tanh}(-\text{Inf})$ is -1.0

`fun asinh(x: Double): Double` Computes the inverse hyperbolic sine of the value [x]. The returned value is y such that $\text{sinh}(y) = x$. Special cases: $-\text{asinh}(\text{NaN})$ is NaN $-\text{asinh}(+\text{Inf})$ is $+\text{Inf}$ $-\text{asinh}(-\text{Inf})$ is $-\text{Inf}$

`fun acosh(x: Double): Double` Computes the inverse hyperbolic cosine of the value [x]. The returned value is positive y such that $\text{cosh}(y) = x$. Special cases: $-\text{acosh}(\text{NaN})$ is NaN $-\text{acosh}(x)$ is NaN when $x < 1$ $-\text{acosh}(+\text{Inf})$ is $+\text{Inf}$

`fun atanh(x: Double): Double` Computes the inverse hyperbolic tangent of the value [x]. The returned value is y such that $\text{tanh}(y) = x$. Special cases: $-\text{atanh}(\text{NaN})$ is NaN $-\text{atanh}(x)$ is NaN when $x > 1$ or $x < -1$ $-\text{atanh}(1.0)$ is $+\text{Inf}$ $-\text{atanh}(-1.0)$ is $-\text{Inf}$

`fun hypot(x: Double, y: Double): Double` Computes $\sqrt{x^2 + y^2}$ without intermediate overflow or underflow. Special cases: returns $+\text{Inf}$ if any of arguments is infinite returns NaN if any of arguments is NaN and the other is not infinite

`fun sqrt(x: Double): Double` Computes Euler's number e raised to the power of the value [x]. Special cases: $-\text{exp}(\text{NaN})$ is NaN $-\text{exp}(+\text{Inf})$ is $+\text{Inf}$ $-\text{exp}(-\text{Inf})$ is 0.0

`fun expm1(x: Double): Double` Computes $\text{exp}(x) - 1$. This function can be implemented to produce more precise result for [x] near zero. Special cases: $-\text{expm1}(\text{NaN})$ is NaN $-\text{expm1}(+\text{Inf})$ is $+\text{Inf}$ $-\text{expm1}(-\text{Inf})$ is -1.0

`fun log(x: Double, base: Double): Double` Computes the logarithm of the value [x] to the given [base]. Special cases: $-\text{log}(x, b)$ is NaN if either x or b are NaN $-\text{log}(x, b)$ is NaN when $x < 0$ or $b \leq 0$ or $b == 1.0$ $-\text{log}(+\text{Inf}, +\text{Inf})$ is NaN $-\text{log}(+\text{Inf}, b)$ is $+\text{Inf}$ for $b > 1$ and $-\text{Inf}$ for $b < 1$ $-\text{log}(0.0, b)$ is $-\text{Inf}$ for $b > 1$ and $+\text{Inf}$ for $b < 1$. See also logarithm functions for common fixed bases: [ln], [log10] and [log2].

`fun ln(x: Double): Double` Computes the natural logarithm (base E) of the value [x]. Special cases: $-\text{ln}(\text{NaN})$ is NaN $-\text{ln}(x)$ is NaN when $x < 0.0$ $-\text{ln}(+\text{Inf})$ is $+\text{Inf}$ $-\text{ln}(0.0)$ is $-\text{Inf}$

`fun ln10(x: Double): Double` Computes the common logarithm (base 10) of the value [x]. @see [ln]

function for special cases.
`@SinceKotlin("1.2")\npublic expect fun log10(x: Double): Double`
 Computes the binary logarithm (base 2) of the value [x].
`@SinceKotlin("1.2")\npublic expect fun log2(x: Double): Double`
 Computes $\ln(x + 1)$.
 This function can be implemented to produce more precise result for [x] near zero.
 Special cases:
 $\ln(1)$ is 0
 $\ln(x)$ is NaN where $x < -1.0$
 $\ln(-1.0)$ is $-\text{Inf}$
 $\ln(+\text{Inf})$ is $+\text{Inf}$
 @see [ln] function
 @see [expm1] function
`@SinceKotlin("1.2")\npublic expect fun ln1p(x: Double): Double`
 Rounds the given value [x] to an integer towards positive infinity.
 @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.
 Special cases:
 $\text{ceil}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.
`@SinceKotlin("1.2")\npublic expect fun ceil(x: Double): Double`
 Rounds the given value [x] to an integer towards negative infinity.
 @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.
 Special cases:
 $\text{floor}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.
`@SinceKotlin("1.2")\npublic expect fun floor(x: Double): Double`
 Rounds the given value [x] to an integer towards zero.
 @return the value [x] having its fractional part truncated.
 Special cases:
 $\text{truncate}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.
`@SinceKotlin("1.2")\npublic expect fun truncate(x: Double): Double`
 Rounds the given value [x] towards the closest integer with ties rounded towards even integer.
 Special cases:
 $\text{round}(x)$ is x where x is NaN or $+\text{Inf}$ or $-\text{Inf}$ or already a mathematical integer.
`@SinceKotlin("1.2")\npublic expect fun round(x: Double): Double`
 Returns the absolute value of the given value [x].
 Special cases:
 $\text{abs}(NaN)$ is NaN
 @see absoluteValue extension property for [Double]
`@SinceKotlin("1.2")\npublic expect fun abs(x: Double): Double`
 Returns the sign of the given value [x]:
 -1.0 if the value is negative,
 zero if the value is zero,
 1.0 if the value is positive
 Special case:
 $\text{sign}(NaN)$ is NaN
`@SinceKotlin("1.2")\npublic expect fun sign(x: Double): Double`
 Returns the smaller of two values.
 If either value is NaN, then the result is NaN.
`@SinceKotlin("1.2")\npublic expect fun min(a: Double, b: Double): Double`
 Returns the greater of two values.
 If either value is NaN, then the result is NaN.
`@SinceKotlin("1.2")\npublic expect fun max(a: Double, b: Double): Double`
 Raises this value to the power [x].
 Special cases:
 $b.\text{pow}(0.0)$ is 1.0
 $b.\text{pow}(1.0) == b$
 $b.\text{pow}(NaN)$ is NaN
 $NaN.\text{pow}(x)$ is NaN for $x \neq 0.0$
 $b.\text{pow}(Inf)$ is NaN for $\text{abs}(b) == 1.0$
 $b.\text{pow}(x)$ is NaN for $b < 0$ and x is finite and not an integer
`@SinceKotlin("1.2")\npublic expect fun Double.pow(x: Double): Double`
 Raises this value to the integer power [n].
 See the other overload of [pow] for details.
`@SinceKotlin("1.2")\npublic expect fun Double.pow(n: Int): Double`
 Returns the absolute value of this value.
 Special cases:
 $NaN.\text{absoluteValue}$ is NaN
 @see abs function
`@SinceKotlin("1.2")\npublic expect val Double.absoluteValue: Double`
 Returns the sign of this value:
 -1.0 if the value is negative,
 zero if the value is zero,
 1.0 if the value is positive
 Special case:
 $NaN.\text{sign}$ is NaN
`@SinceKotlin("1.2")\npublic expect val Double.sign: Double`
 Returns this value with the sign bit same as of the [sign] value.
 If [sign] is NaN the sign of the result is undefined.
`@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Double): Double`
 Returns this value with the sign bit same as of the [sign] value.
`@SinceKotlin("1.2")\npublic expect fun Double.withSign(sign: Int): Double`
 Returns the ulp (unit in the last place) of this value.
 An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.
 Special Cases:
 $NaN.\text{ulp}$ is NaN
 $x.\text{ulp}$ is $+\text{Inf}$ when x is $+\text{Inf}$ or $-\text{Inf}$
 $0.0.\text{ulp}$ is `Double.MIN_VALUE`
`@SinceKotlin("1.2")\npublic expect val Double.ulp: Double`
 Returns the [Double] value nearest to this value in direction of positive infinity.
`@SinceKotlin("1.2")\npublic expect fun Double.nextUp(): Double`
 Returns the [Double] value nearest to this value in direction of negative infinity.
`@SinceKotlin("1.2")\npublic expect fun Double.nextDown(): Double`
 Returns the [Double] value nearest to this value in direction from this value towards the value [to].
 Special cases:

`x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`.
`x.nextTowards(x) == x`.
`@SinceKotlin("1.2")` public expect fun Double.nextTowards(to: Double): Double
Rounds this [Double] value to the nearest integer and converts the result to [Int].
Ties are rounded towards positive infinity.
Special cases:
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`
`x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`
@throws IllegalArgumentException when this value is `NaN`.
`@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.
Special cases:
`x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`
`x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`
@throws IllegalArgumentException when this value is `NaN`.
`@SinceKotlin("1.2")` public expect fun Double.roundToLong(): Long
// endregion
// region ===== Float Math
=====
Computes the sine of the angle [x] given in radians.
Special cases:
`sin(NaN|+Inf|-Inf)` 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(NaN|+Inf|-Inf)` 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(NaN|+Inf|-Inf)` 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(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`.
`@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(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`.
`@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(NaN)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun atan(x: Float): Float
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]`.
the returned value is an angle in the range from `-PI` to `PI` radians.
Special cases:
`atan2(0.0, 0.0)` is `0.0`
`atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`
`atan2(-0.0, x)` is `-0.0` for `x > 0` and `-PI` for `x < 0`
`atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for `-Inf < y < 0`
`atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`
`atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`
`atan2(+Inf, x)` is `PI/2` for finite `x`
`atan2(-Inf, x)` is `-PI/2` for finite `x`
`atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`.
`@SinceKotlin("1.2")` public expect fun atan2(y: Float, x: Float): Float
Computes the hyperbolic sine of the value [x].
Special cases:
`sinh(NaN)` is `NaN`
`sinh(+Inf)` is `+Inf`
`sinh(-Inf)` is `-Inf`.
`@SinceKotlin("1.2")` public expect fun sinh(x: Float): Float
Computes the hyperbolic cosine of the value [x].
Special cases:
`cosh(NaN)` is `NaN`
`cosh(+Inf|-Inf)` is `+Inf`.
`@SinceKotlin("1.2")` public expect fun cosh(x: Float): Float
Computes the hyperbolic tangent of the value [x].
Special cases:
`tanh(NaN)` is `NaN`
`tanh(+Inf)` is `1.0`
`tanh(-Inf)` is `-1.0`.
`@SinceKotlin("1.2")` public expect fun tanh(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(NaN)` is `NaN`
`asinh(+Inf)` is `+Inf`
`asinh(-Inf)` is `-Inf`.
`@SinceKotlin("1.2")` public expect fun asinh(x: Float): Float
Computes the inverse hyperbolic cosine of the value [x].
The returned value is positive `y` such that `cosh(y) == x`.
Special cases:
`acosh(NaN)` is `NaN`
`acosh(x)` is `NaN` when `x < 1`
`acosh(+Inf)` is `+Inf`.
`@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:
`atanh(NaN)` is `NaN`
`atanh(x)` is `NaN` when `x > 1` or `x < -1`
`atanh(1.0)` is `+Inf`
`atanh(-1.0)` is `-Inf`.
`@SinceKotlin("1.2")` public expect fun atanh(x: Float): Float
Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.
Special cases:
returns `+Inf` if any of arguments is

infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n

*\n@SinceKotlin("1.2")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/**\n * Computes the positive square root of the value [x].\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n

*\n@SinceKotlin("1.2")\npublic expect fun sqrt(x: Float): Float\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n

*\n@SinceKotlin("1.2")\npublic expect fun exp(x: Float): Float\n\n/**\n * Computes `exp(x) - 1`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n * @see [exp] function.\n

*\n@SinceKotlin("1.2")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n

*\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n

*\n@SinceKotlin("1.2")\npublic expect fun log(x: Float, base: Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n

*\n@SinceKotlin("1.2")\npublic expect fun ln(x: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n * @see [ln] function for special cases.\n

*\n@SinceKotlin("1.2")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n * @see [ln] function for special cases.\n

*\n@SinceKotlin("1.2")\npublic expect fun log2(x: Float): Float\n\n/**\n * Computes `ln(a + 1)`.\n * This function can be implemented to produce more precise result for [x] near zero.\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n * @see [ln] function\n * @see [expm1] function\n

*\n@SinceKotlin("1.2")\npublic expect fun ln1p(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n * @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 * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*\n@SinceKotlin("1.2")\npublic expect fun ceil(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n * @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 `+Inf` or `-Inf` or already a mathematical integer.\n

*\n@SinceKotlin("1.2")\npublic expect fun floor(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n * @return the value [x] having its fractional part truncated.\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*\n@SinceKotlin("1.2")\npublic expect fun truncate(x: Float): Float\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*\n@SinceKotlin("1.2")\npublic expect fun round(x: Float): Float\n\n/**\n * Returns the absolute value of the given value [x].\n * Special cases:\n * - `abs(NaN)` is `NaN`\n * @see absoluteValue extension property for [Float]\n

*\n@SinceKotlin("1.2")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n * Special case:\n * - `sign(NaN)` is `NaN`\n

*\n@SinceKotlin("1.2")\npublic expect fun sign(x: Float): Float\n\n/**\n * Returns the smaller of two values.\n * If either value is `NaN`, then the result is `NaN`.\n

*\n@SinceKotlin("1.2")\npublic expect fun min(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n * If either value is `NaN`, then the result is `NaN`.\n

*\n@SinceKotlin("1.2")\npublic expect fun max(a: Float, b: Float): Float\n\n/**\n * Raises this value to the power [x].\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n

*\n@SinceKotlin("1.2")\npublic expect fun Float.pow(x: Float): Float\n\n/**\n * Raises this value to the integer power [n].\n * See the other overload of [pow] for details.\n

```

*\n@SinceKotlin("1.2")\npublic expect fun Float.pow(n: Int): Float\n\n**\n * Returns the absolute value of this
value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n
*\n@SinceKotlin("1.2")\npublic expect val Float.absoluteValue: Float\n\n**\n * Returns the sign of this value:\n
* - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special
case:\n * - `NaN.sign` is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect val Float.sign: Float\n\n**\n * Returns
this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n
*\n@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Float): Float\n\n**\n * Returns this value with
the sign bit same as of the [sign] value.\n *\n@SinceKotlin("1.2")\npublic expect fun Float.withSign(sign: Int):
Float\n\n**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n *\n * Ties are
rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x >
Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws
IllegalArgumentException when this value is `NaN`\n *\n@SinceKotlin("1.2")\npublic expect fun
Float.roundToInt(): Int\n\n**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n *\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x
< Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n
*\n@SinceKotlin("1.2")\npublic expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n// region
===== Integer Math =====\n\n**\n * Returns
the absolute value of the given value [n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is
`Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n
*\n@SinceKotlin("1.2")\npublic expect fun abs(n: Int): Int\n\n**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.2")\npublic expect fun min(a: Int, b: Int): Int\n\n**\n * Returns the greater of two values.\n
*\n@SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int\n\n**\n * Returns the absolute value of this
value.\n *\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n
*\n * @see abs function\n *\n@SinceKotlin("1.2")\npublic expect val Int.absoluteValue: Int\n\n**\n * Returns
the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is
positive\n *\n@SinceKotlin("1.2")\npublic expect val Int.sign: Int\n\n\n**\n * Returns the absolute value of the
given value [n].\n *\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an
overflow\n *\n * @see absoluteValue extension property for [Long]\n *\n@SinceKotlin("1.2")\npublic expect fun
abs(n: Long): Long\n\n**\n * Returns the smaller of two values.\n *\n@SinceKotlin("1.2")\npublic expect fun
min(a: Long, b: Long): Long\n\n**\n * Returns the greater of two values.\n *\n@SinceKotlin("1.2")\npublic
expect fun max(a: Long, b: Long): Long\n\n**\n * Returns the absolute value of this value.\n *\n * Special cases:\n
* - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n
*\n@SinceKotlin("1.2")\npublic expect val Long.absoluteValue: Long\n\n**\n * Returns the sign of this value:\n
* - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n
*\n@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n\n//
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Af,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SA
hB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO9tRP,U;UADP,YPguRe,WohuRH,WpguRw
B,GOhuRxB,C;UACL,IAAI,aAAJ,C;YACH,aP8tRuC,gB;YAA5B,Wo7tRX,aP6tRgC,GO7tRhC,EAAS,MAAT,C;
YACA,e;;YAEA,c;;UP0tRA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FAkBA
,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YA
AY,OAAZ,C;UOhvRP,U;UADP,YPkvRe,WolvRH,WpkvRwB,GOlvRxB,C;UACL,IAAI,aAAJ,C;YACH,aPgvRu
C,gB;YAA5B,Wo/uRX,aP+uRgC,GO/uRhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP4uRA,iB;UACA,IAAK,WA
AI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KafX,C;2FAkBA,yB;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE
;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,YAAY,oBAAZ,C;U
OlwRP,U;UADP,YPowRe,WOpwRH,WpowRwB,GOpwRxB,C;UACL,IAAI,aAAJ,C;YACH,aPkwRuC,gB;YAA5
B,WojwRX,aPiwRgC,GOjwRhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8vRA,iB;UACA,IAAK,WAAI,eAAe,oB
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;O;MARX,oDASQ,Y;QAA6C,OAAGB,qBAAhB,oBAAGB,C;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O
;MAV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;4EAcA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,
C;QA6UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WA9UiB,SA8Ub,CAAU,IAAV,CAAJ,C;;QA9UhB,OA+U
O,W;O;KAtVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA6UA,Q;QAAb,iD;UA
Aa,WAAb,e;UACI,WAAY,WA9UiB,SA8Ub,CAAU,IAAV,CAAJ,C;;QA9UhB,OA+UO,W;O;KAtVX,C;8EAUA,
yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA6UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,
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AV,CAAJ,C;;QA9UhB,OA+UO,W;O;KAtVX,C;8EAUUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAA
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UO,W;O;KAtVX,C;8EAUUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA6UA,Q;QAAb,iD;U
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yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MIC+0BA,0D;MAAA,+C;MgC91CA,+B;ME+gBA,yBAO+B,yB;QFthB/B,
+B;eEshB+B,6B;UAAA,qB;YAAE,yBF5gBS,eE4gBC,EF5gBD,CE4gBT,C;W;S;OAAF,C;MAP/B,uC;QAOMB,k
BAAR,iB;QAAQ,sB;;UIC40BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YA
CV,IkC70ByB,UF5gBS,ehCy1CpB,YAAK,KAAL,CgCz1CoB,CE4gBT,CIC60BzB,C;cACI,qBAAO,K;cAAP,uB;;
UAGR,qBAAO,E;;;QkCj1BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MICyBA,0D;MAAA,+C;ME32CA,+B;MgC0
kBA,yBAO+B,yB;QhCj1B/B,+B;egCilB+B,6B;UAAA,qB;YAAE,yBhCvkBS,egCukBC,EhCvkBD,CgCukBT,C;W
;S;OAAF,C;MAP/B,uC;QAOMB,kBAAR,iB;QAAQ,sB;;UIC8xBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;U
AAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IkC/xByB,UhCvkBS,eF2CpB,YAAK,KAAL,CEt2CoB,CgCukBT,CIC+xB
zB,C;cACI,qBAAO,K;cAAP,uB;;UAGR,qBAAO,E;;;QkCnyBP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MICmyBA,
0D;MAAA,+C;MI12CA,iC;M8BukBA,yBAO+B,yB;Q9B9kB/B,iC;e8B8kB+B,6B;UAAA,qB;YAAE,yB9BpkBY,
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,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IkCjyByB,U9BpkBY,gBjq2CvB,YA
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J,C;iFAUA,yB;MAAA,4C;M/B5jBA,6B;M+B4jBA,4B;QAQI,O/B1jBmC,c+B0jBpB,KAAR,iBAAQ,C/B1jBoB,C;
O;K+BkjBvC,C;iFAWA,yB;MAAA,4C;MFxjBA,+B;MEwjBA,4B;QAQI,OfTjBsC,eEsjBvB,KAAR,iBAAQ,CftjB
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C;QAQkB,Q;QAAA,OAAa,SA0+EX,YA1+EF,SA0+EN,QAAQ,CA1+EW,CAAb,W;QAAd,OAAc,cAAAd,C;UAAc
,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gC
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I,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAA
A,+C;MAAA,iE;MA69EI,0D;MA79EJ,uC;QAQkB,Q;QAAA,OAAa,SAq9EX,YAr9EF,SAq9EN,QAAQ,CAr9EW,
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I,0D;MA12EJ,uC;QAOKB,Q;QAAA,OAAa,SAm2EX,YAn2EF,SAm2EN,QAAQ,CAn2EW,CAAb,W;QAAd,OAA
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EnC,OAAO,I;O;KAXX,C;6FAcA,yB;MAAA,+C;MAo2EI,0D;MAp2EJ,uC;QAOKB,Q;QAAA,OAAa,SA61EX,Y
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Cd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEEnC,OAAO,I;O;KAXX,C;6FAcA,yB;MAAA,+C;MA81
EI,0D;MA91EJ,uC;QAOKB,Q;QAAA,OAAa,SAu1EX,YAv1EF,SAu1EN,QAAQ,Cav1EW,CAAb,W;QAAd,OAA
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mB;O;K;sDAA9E,oB;MAAkE,yBAAU,8CAAV,C;K;6CAGIE,Y;MAAQD,iD;K;mDAErD,mB;MAAO,0BAAQ,O
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Ac,OAAd,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K;sDAGX,mB;MACI,iBAAC,sBAAd,WAA+B,CAA/B,U;Q
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B,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,C;MACf,YAAO,UAAU,SAAV,I;MtDgEX,iBAAC,CAAd,
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d,C;K;wDAC/B,Y;MAAkC,iEAc,IAAd,C;K;sDACL,iB;MAA4C,+DAAY,IAAZ,EAakB,KAAIB,C;K;;IA5C,8
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B,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,aAAF,IAAm
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A,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAAA,yF;K;;IAAA,0C;MAAA,a;aAAA,S;UAAA,+C;aA
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,kB;K;IAEA,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAKI,4E;MAGA,wE;K;;IAHA,mD;
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D,c;;QhI4/C7C,Q;QADhB,IAAI,mCAAsB,cAA1B,C;UAAqC,aAAO,K;UAAp,e;SACrB,sB;QAAhB,OAAgB,cAA
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;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;MAAA,sH;K;;IAAA,6B;MAAA,a;aAAA,O;UAAA,gC;aAAA,U;U
AAA,mC;aAAA,M;UAAA,+B;aAAA,Q;UAAA,iC;gBAAA,6D;;K;;IAOA,4B;MAKI,mD;MACA,2BAA4B,I;K;yC
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HL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MACtB,mD;MAEA,O
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GJ,Y;MAIL,+C;K;;ICIDkC,wB;MAoFtC,oC;MAPfGe,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAWD,uB;;
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RnE,C;YACI,sBAAO,K;YAAP,wB;WACJ,qB;;QAEJ,sBAAO,E;;MkIISiD,0B;K;+CAExD,mB;MAA4D,sB;;QII
T5D,eAAoB,0BAAa,SAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI,IkI9TsE,OIIwTxD,QAAS,WkI9T+C,UIIwT
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X,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAAnB,EAA0B,WAAkB,KA
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OAA0B,MAAN,KAAM,C;;QAAiC,kBAApB,qBAAC,SAAd,C;QAA4B,4B;QAAAnE,OU/hBO,W;;MV+hBP,W;K;I
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Ad,C;QAA4B,0B;QAAAnE,OUxiBO,W;;MVwiBP,W;K;IAEJ,mC;MAOWB,kBAApB,qBAAC,SAAd,C;MAA4B,4B
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,C;4FAQA,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FAQA,0B;MAKI,yBAAO,GAAP,C;
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EpD,mC;MAQwB,kBAAf,aAAL,SAAK,C;MAoCK,YAAL,gBAAK,O;MApCV,OAAgD,oBUhoBzC,WVgoByC,C
;K;IAEPD,mC;MAQwB,kBAAf,aAAL,SAAK,C;MAMCK,YAAL,gBAAK,O;MANCV,OAAgD,oBU1oBzC,WV0o
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;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;8FAQA,8B;MAK
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G;gBAPuB,mC;;K;IChDhD,4B;K;;;MC4BI,kC;;IAXA,gC;MAAA,oC;MAM0B,2BAAc,iC;K;8CACpC,Y;MAAkC,
OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;;IAN1B,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAWA,gC;MA
AA,oC;K;;;IAAA,4C;MAAA,2C;QAAA,0B;OAAA,oC;K;IAKJ,oB;K;qCAcI,oB;MAK8D,4BAAiB,IAAjB,EAAu
B,QAAvB,C;K;sCAE9D,oB;MAK+D,wBAAM,QAAD,aAAL,C;K;sCAG/D,Y;MAMqC,QAAC,iBAAa,a;K;yCAE
nD,Y;MAMwC,OAAA,iBAAa,a;K;;4EAIzD,yB;MAAA,4C;MAAA,mC;QAOUe,MAAM,WAAM,0BAAN,C;O;K
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D,mB;MAAhD,gB;MAAoB,4B;K;4CAC/C,Y;MAAsC,OAAA,SAAK,aAAL,cAAoB,eAApB,C;K;6CAEtC,oB;MA
AkD,4BAAiB,SAAjB,EAAuB,4BAAa,QAAb,CAAvB,C;K;;IC9FV,sC;MAAC,gB;K;IAOf,4E;MAA8G,mB;MAA
7G,4B;MAA6B,8B;MAAgD,sB;K;+DACpG,Y;MAAsC,OAAgC,aAA/B,iBAAW,OAAX,UAAoB,gBAApB,CAA+
B,EAAW,iBAAW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;gEACtC,oB;MAAkD,+CAAA,gBAAb,EAawB,iBAAxB,
EAAoC,0BAAS,QAAT,CAApC,C;K;;+CAGtD,Y;MAAmC,+CAAA,WAAb,EAAqB,IAArB,EAA2B,gCAAS,KAA
pC,C;K;;IAUO,wC;MAAC,gB;K;IAOf,gF;MAAKh,mB;MAAjH,4B;MAA+B,8B;MAAkD,sB;K;mEAC1G,Y;MA
AsC,OAAgC,aAA/B,iBAAW,OAAX,GAAoB,gBAAW,EAAW,iBAAW,KAAtB,CAAhC,cAA8D,aAA9D,C;K;oE

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AY,QD7DZ,SC6DY,CAAZ,C;O;KDtEvC,C;8EAUA,Y;MAEmC,W;K;gFACnC,yB;MAAA,kBAS6D,sB;MAT7D,
+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;O;KATrC,C;gFAWA,yB;MASA,gD;MATA,m
B;QAQqC,OAoE,aAAa,SAAb,C;O;KAFvC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMuC,oBAAa,SAAb,C;O;KA
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B/JH,Y;MAAQ,OAaa,YAAQ,O;K;mCAE9C,Y;MACwD,8BAAS,YAAT,C;K;IAEIC,mC;MAAgC,uB;MAA/B,o
B;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q;MAA9B,IAAL,eAAQ,
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Found in path(s):

* /opt/cola/permits/1291668664_1647862209.74/0/kotlin-1-3-70-tgz/package/kotlin.js.map

1.237 e2fsprogs 1.44.1 1ubuntu1.3

1.237.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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```
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1.238 jetty-servlet 9.4.31.v20200723

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

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* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.239 xmlsec-java 2.1.4

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

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  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.0.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

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  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
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    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
```

```

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</dependencies>
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</configuration>
</plugin>
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<artifactId>maven-bundle-plugin</artifactId>
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</instructions>
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</plugin>
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<artifactId>maven-source-plugin</artifactId>
<version>3.2.0</version>
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<execution>
<id>attach-sources</id>
<phase>verify</phase>
<goals>
<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>3.1.1</version>
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<additionalOptions>
<additionalOption>-Xdoclint:none</additionalOption>

```

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</additionalOptions>
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</execution>
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</plugin>
</plugins>
</build>

<distributionManagement>
<repository>
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<name>jctools-jctools</name>
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</repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
<license>
<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
<distribution>repo</distribution>
</license>
</licenses>

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

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>

```

```

<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
  <url>https://github.com/kay</url>
</developer>
<developer>
  <url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

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

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

```

Found in path(s):

* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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*/

Found in path(s):

- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/Pow2.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/InternalAPI.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpSCLinkedQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Ordering.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/spec/Preference.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/AbstractEntry.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java
- * /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/package-info.java

* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/RangeUtil.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/util/PortableJvmInfo.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/QueueFactory.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpvcAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SupportsIterator.java
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpvcUnboundedArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
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1.244 libwindheimdal 7.5.0+dfsg-1

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Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: heimdal

Upstream-Contact: heimdal@h5l.org

Source: <https://github.com/heimdal/heimdal>

Files-Excluded: doc/doxyout

lib/wind/rfc3490.txt

lib/wind/rfc3491.txt

lib/wind/rfc4013.txt

lib/wind/rfc4518.txt

Files: *

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
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@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

```
@heading Kungliga Tekniska Hgskolan
```

```
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@verbatim
```

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GSS-API mechglue layer.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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1.248 txw2 2.3.1

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1.249 go-runtime 1.15.3

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1.251 hazelcast-client-protocol 1.8.0

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1.252 base-files 10.1ubuntu2.11

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```
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1.253 vertx-hazelcast 3.9.4

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1.254 mawk 1.3.3 17ubuntu3

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.256 vertx-web-common 3.9.4

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 */
```

Found in path(s):

`*/opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-jar/io/vertx/ext/web/multipart/impl/FormDataPartImpl.java`

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-
jar/io/vertx/ext/web/multipart/FormDataPart.java
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-
jar/io/vertx/ext/web/multipart/MultipartForm.java
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-
jar/io/vertx/ext/web/multipart/impl/MultipartFormImpl.java
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```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-
jar/io/vertx/ext/web/common/WebEnvironment.java
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jar/io/vertx/ext/web/codecs/BodyCodec.java
```

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-  
jar/io/vertx/ext/web/codec/impl/BodyCodecImpl.java
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jar/io/vertx/ext/web/codec/impl/StreamingBodyCodec.java
```

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-  
jar/io/vertx/ext/web/common/template/CachingTemplateEngine.java
```

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-  
jar/io/vertx/ext/web/codec/spi/BodyStream.java
```

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-  
jar/io/vertx/ext/web/common/template/TemplateEngine.java
```

```
* /opt/cola/permits/1101064227_1603114228.6/0/vertx-web-common-3-9-4-sources-  
jar/io/vertx/ext/web/common/template/impl/ConcurrentLRUCache.java
```

1.257 snake-yaml 1.27

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1.258 c3p0 0.9.5.4

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1.259 libnlroute 3.2.29-0ubuntu3

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging of libnl1.

It was downloaded from <https://github.com/thom311/libnl/releases>

Upstream Author:

Thomas Graf <tgraf@suug.ch>

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lib/route/addr.c

include/netlink/route/addr.h

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Baruch Even <baruch@ev-en.org>

lib/route/cls/u32.c

lib/route/cls/fw.c

lib/route/sch/htb.c

include/netlink/route/cls/fw.h

include/netlink/route/sch/htb.h

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lib/netfilter/log_msg.c
lib/netfilter/ct.c
include/netlink/netfilter/log_msg.h
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include/netlink/netfilter/queue_msg.h
lib/netfilter/queue_msg_obj.c
lib/netfilter/queue_msg.c
lib/netfilter/queue.c
lib/netfilter/netfilter.c
lib/netfilter/queue_obj.c
include/netlink/netfilter/netfilter.h
include/netlink/netfilter/queue.h
src/nf-queue.c

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include/netlink/xfrm/selector.h
include/netlink/xfrm/sa.h
include/netlink/xfrm/ae.h
include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
lib/xfrm/ae.c
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src/cls/utills.c
src/cls/cgroup.c
src/cls/utills.h
src/cls/basic.c
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include/netlink/xfrm/sa.h
include/netlink/xfrm/ae.h
include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
lib/xfrm/ae.c
lib/xfrm/sp.c
lib/xfrm/selector.c
lib/xfrm/lifetime.c

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1.260 zstd 1.3.3+dfsg 2ubuntu1.2

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Upstream-Name: Zstd

Source: <https://github.com/facebook/zstd>

Files-Excluded: appveyor.yml

- circle.yml
- build/*
- programs/windres/*
- .travis.yml
- .buckversion
- .buckconfig

Files: *

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Upstream-Name: ceph

Upstream-Contact: Sage Weil <sage@newdream.net>

Source: <http://ceph.com/>

Files-Excluded:

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src/civetweb/examples/websocket_client/ssl/server.key.orig

src/civetweb/resources/cert/client.key.orig

src/civetweb/resources/cert/server.key.orig

src/erasure-code/jerasure/jerasure/Examples/makefile.orig

src/erasure-code/jerasure/jerasure/include/config.h.in~

src/erasure-code/jerasure/jerasure/makefile.orig

Files: *

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2013-2014 UnitedStack <haomai@unitedstack.com>

2011 Wido den Hollander <wido@widodh.nl>

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Files: src/erasure-code/jerasure/ErasureCode*

src/erasure-code/ErasureCode*

src/erasure-code/isa/*

src/include/str_map.h

src/test/common/test_str_map.cc

src/test/erasure-code/*

src/test/rgw/test_rgw_manifest.cc

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Files: src/mount/canonicalize.c

src/test/common/test_config.cc
src/test/crush/TestCrushWrapper.cc
src/test/common/Throttle.cc
src/test/objectstore/chain_xattr.cc
src/test/mon/mon-test-helpers.sh
src/test/objectstore/chain_xattr.cc
src/test/osd/osd-test-helpers.sh
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src/stop.sh

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Files: src/common/ceph_hash.cc

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Files: src/common/bloom_filter.hpp

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Files: src/erasure-code/jerasure/gf-complete/*/*

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Comment:

<https://bitbucket.org/jimplank/gf-complete>

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Files: src/json_spirit/*

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Files: src/java/native/ScopedLocalRef.h

src/java/native/JniConstants.*

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"mount/fstab.c" from line 559:

<https://git.kernel.org/cgit/utls/util-linux/util-linux.git/tree/mount-deprecated/fstab.c?h=v2.22#n559>

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Files: src/test/librbd/fsx.c

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<http://codemonkey.org.uk/projects/fsx/>

<http://codemonkey.org.uk/projects/fsx/fsx-macosforge/fsx.c>

Files: man/*

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1.262 asm 3.3.1

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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/commons/SimpleRemapper.java
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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/commons/EmptyVisitor.java
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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/tree/ClassNode.java

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- * /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/xml/SAXAdapter.java
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN

module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.266 log4j-slf4j-impl 2.17.0

1.266.1 Available under license :

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1.267 httpclient5 5.0

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1.268 libnl3 3.2.29 Ubuntu3

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1.269 zlib 1.2.11

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1.270 Icms 2.10

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1.271 jersey-apache-connector 2.30.1

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1.273 libncurses 6.1-1ubuntu1.18.04

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It is based somewhat on work done by Bruce Perens <Bruce@Pixar.com>, David Engel <david@elo.ods.com>. Michael Alan Dorman <mdorman@debian.org>, Richard Braakman <dark@xs4all.nl>, James Troup <jjttroup@comp.brad.ac.uk>, J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>, and Galen Hazelwood <galenh@micron.net> over various years.

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1.274 jackson-datatype-hibernate 2.12.1

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1.275 mxparser 1.2.1

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1.276 httpcomponents-core 4.4.5

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/util/CookieGenerator.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
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jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/multipart/MultipartResolver.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/server/ServerHttpRequest.java

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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequest.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/ServletContextPropertySource.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/ServletRequestHandledEvent.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/request/async/WebAsyncTask.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/jaxws/AbstractJaxWsServiceExporter.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/jsf/FacesContextUtils.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/AsyncClientHttpRequestFactory.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/ClientHttpRequest.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/method/support/HandlerMethodReturnValueHandler.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/caucho/SimpleHessianServiceExporter.java

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/util/Log4jWebConfigurer.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/multipart/support/StandardServletMultipartResolver.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/method/annotation/RequestParamMethodArgumentResolver.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/http/client/InterceptingClientHttpRequest.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/method/annotation/MapMethodProcessor.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/bind/annotation/RequestPart.java
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jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/context/support/ContextExposingHttpServletRequest.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/request/WebRequestInterceptor.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/MethodArgumentNotValidException.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/annotation/support/HandlerMethodInvocationException.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/util/IntrospectorCleanupListener.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/request/SessionScope.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/HttpRequestHandlerServlet.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/multipart/MultipartException.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/ServletRequestDataBinder.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/bind/annotation/InitBinder.java
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- * /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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jar/org/springframework/http/MediaTypeEditor.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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jar/org/springframework/remoting/jaxws/LocalJaxWsServiceFactoryBean.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-

jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/bind/ServletRequestUtils.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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jar/org/springframework/web/bind/support/SessionStatus.java

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/util/ServletContextPropertyUtils.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/context/support/StandardServletEnvironment.java

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/caucho/BurlapExporter.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/remoting/caucho/HessianServiceExporter.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/web/HttpMediaTypeException.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/InvalidMediaTypeException.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java

* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
jar/org/springframework/web/context/request/RequestAttributes.java

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```
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/CookieUtil.java
```

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cors/CorsConfig.java

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- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpChunkedInput.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/HttpMessageUtil.java
- * /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-

jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java

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jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/cors/package-info.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/FullHttpRequest.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/FullHttpRequest.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/FullHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaders.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/rtsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/DefaultHttpContent.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/multipart/HttpData.java
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-

jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/CookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/QueryStringEncoder.java
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jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
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jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpContentDecompressor.java
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jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-

jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpMessage.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-

jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpContent.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpRequestEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspHeaders.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/Cookie.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpObject.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpClientCodec.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-

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jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/LastHttpContent.java
```

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```
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jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

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jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-
jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java

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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.07/0/netty-codec-http-4-1-49-final-sources-1-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

1.280 xz 5.2.2 1.3

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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1.281 libiscsi 1.17.0-1.1

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AES in libcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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* /opt/ws_local/PERMITS_SQL/1068720001_1594427042.39/0/netty-codec-dns-4-1-49-final-sources-1-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

* /opt/ws_local/PERMITS_SQL/1068720001_1594427042.39/0/netty-codec-dns-4-1-49-final-sources-1-

jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java
* /opt/ws_local/PERMITS_SQL/1068720001_1594427042.39/0/netty-codec-dns-4-1-49-final-sources-1-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/ws_local/PERMITS_SQL/1068720001_1594427042.39/0/netty-codec-dns-4-1-49-final-sources-1-
jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/ws_local/PERMITS_SQL/1068720001_1594427042.39/0/netty-codec-dns-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
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jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
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jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
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jar/io/netty/handler/codec/dns/DnsResponseCode.java
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1.287 jackson 2.1.0

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1.288 jackson-databind 2.12.1

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1.289 apt 1.6.14

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1.290 jna 5.5.0

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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterator.java

* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Node.java

* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterable.java

* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Main.java

* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Generex.java

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
  <name>Generex</name>
  <url>https://github.com/mifmif/Generex/tree/master</url>
  <description>Generex A Java Library for regex to Strings generation</description>
  <packaging>jar</packaging>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>mifmif</id>
      <name>MIFRAH Youssef</name>
      <email>mifmif.com@gmail.com</email>
    </developer>
    <developer>
      <id>mkolisnyk</id>
      <name>mkolisnyk</name>
      <email>kolesnik.nickolay@gmail.com</email>
    </developer>
  </developers>
```

```
<parent>
<groupId>org.sonatype.oss</groupId>
<artifactId>oss-parent</artifactId>
<version>7</version>
</parent>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<maven.pmd.excludes>*/generated-sources/**</maven.pmd.excludes>
</properties>
<scm>
<connection>scm:git:git@github.com:mifmif/Generex.git</connection>
<developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
<url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
<url>https://travis-ci.org/mifmif/Generex/builds</url>
<system>Travis</system>
<notifiers>
<notifier>
<address>mifmif.com@gmail.com</address>
<type>mail</type>
</notifier>
<notifier>
<address>kolesnik.nickolay@gmail.com</address>
<type>mail</type>
</notifier>
</notifiers>
</ciManagement>

<distributionManagement>
<snapshotRepository>
<id>ossrh</id>
<url>https://oss.sonatype.org/content/repositories/snapshots</url>
</snapshotRepository>
<repository>
<id>ossrh</id>
<url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
</repository>
</distributionManagement>

<build>
<sourceDirectory>src/main/java</sourceDirectory>
<testSourceDirectory>src/test/java</testSourceDirectory>
<resources>
<resource>
```

```

<directory>src</directory>
<excludes>
  <exclude>**/*.java</exclude>
</excludes>
</resource>
<resource>
  <directory>target/dependency</directory>
  <excludes>
    <exclude>**/*.java</exclude>
  </excludes>
</resource>
<resource>
  <directory>src/main/resources</directory>
  <includes>
    <include>**/*.properties</include>
  </includes>
</resource>
</resources>
<plugins>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-install-plugin</artifactId>
    <version>2.5.2</version>
    <configuration>
      <file>target/${project.artifactId}-${project.version}.jar</file>
      <groupId>${project.groupId}</groupId>
      <artifactId>${project.artifactId}</artifactId>
      <version>${project.version}</version>
      <packaging>maven-plugin</packaging>
    </configuration>
  </plugin>

  <plugin>
    <artifactId>maven-compiler-plugin</artifactId>
    <version>3.5.1</version>
    <configuration>
      <source>1.5</source>
      <target>1.5</target>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <version>3.0.2</version>
    <configuration>
      <excludes>
        <exclude>*</exclude>
        <exclude>com/thoughtworks/**/*</exclude>
      </excludes>
    </configuration>
  </plugin>

```

```

<exclude>freemarker/**/*</exclude>
<exclude>ftl/**/*</exclude>
<exclude>i18n/**/*</exclude>
<exclude>style/**/*</exclude>
<exclude>junit/**/*</exclude>
<exclude>licenses/**/*</exclude>
<exclude>META-INF/maven/**/*</exclude>
<exclude>org/codehaus/**/*</exclude>
<exclude>org/hamcrest/**/*</exclude>
<exclude>org/jbehave/**/*</exclude>
<exclude>org/junit/**/*</exclude>
<exclude>org/testng/**/*</exclude>
<exclude>org/xmlpull/**/*</exclude>
<exclude>stories/**/*</exclude>
<exclude>style/**/*</exclude>
<exclude>tests/**/*</exclude>
</excludes>
<archive>
<manifest>
<addClasspath>>false</addClasspath>
<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
<addExtensions>>false</addExtensions>
<classpathLayoutType>simple</classpathLayoutType>
</manifest>
</archive>
</configuration>
</plugin>
<plugin>
<artifactId>maven-assembly-plugin</artifactId>
<version>2.6</version>
<configuration>
<descriptors>
<descriptor>./sources.xml</descriptor>
</descriptors>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-dependency-plugin</artifactId>
<version>2.10</version>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.3</version>
<configuration>
<show>private</show>

```



```
<nohelp>false</nohelp>
<failOnError>false</failOnError>
<sourcepath>src/main/java</sourcepath>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-release-plugin</artifactId>
<configuration>
<tagNameFormat>v@{project.version}</tagNameFormat>
<preparationGoals>package install:install-file</preparationGoals>
<scmCommentPrefix>#3</scmCommentPrefix>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
<configuration>
<skip>>true</skip>
</configuration>
</plugin>
```

```
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.0.1</version>
<executions>
<execution>
<goals>
<goal>jar-no-fork</goal>
</goals>
</execution>
</executions>
</plugin>
```

```
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<executions>
<execution>
<id>attach-javadocs</id>
<goals>
<goal>jar</goal>
</goals>
</execution>
```

```
</executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>deploy</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

```
<plugin>
  <groupId>org.sonatype.plugins</groupId>
  <artifactId>nexus-staging-maven-plugin</artifactId>
  <version>1.6.3</version>
  <executions>
    <execution>
      <id>default-deploy</id>
      <phase>deploy</phase>
      <goals>
        <goal>deploy</goal>
      </goals>
    </execution>
  </executions>
  <extensions>true</extensions>
  <configuration>
    <serverId>osrh</serverId>
    <nexusUrl>https://oss.sonatype.org/</nexusUrl>
  </configuration>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
  <configuration>
    <failOnViolation>true</failOnViolation>
    <excludeRoots>
      <excludeRoot>target/generated-sources/plugin</excludeRoot>
    </excludeRoots>
```

```

<excludes>
  <exclude>**/HelpMojo.java</exclude>
</excludes>
</configuration>
<executions>
  <execution>
    <goals>
      <goal>check</goal>
      <goal>cpd-check</goal>
    </goals>
    <configuration>
      <failOnViolation>>true</failOnViolation>
      <excludes>
        <exclude>**/HelpMojo.java</exclude>
      </excludes>
    </configuration>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-checkstyle-plugin</artifactId>
  <version>2.10</version>
  <configuration>
    <excludes>**/test/java/**/*.*.java</excludes>
    <configLocation>./sun_checks.xml</configLocation>
    <suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
    <failOnViolation>>true</failOnViolation>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>cobertura-maven-plugin</artifactId>
  <version>2.6</version>
  <configuration>
    <check>
      <haltOnFailure>>false</haltOnFailure>
      <totalBranchRate>80</totalBranchRate>
      <totalLineRate>80</totalLineRate>
      <packageLineRate>80</packageLineRate>
      <packageBranchRate>80</packageBranchRate>
    </check>
  </configuration>
</plugin>

```

```

</check>
<instrumentation>
  <excludes>
    <exclude>**/HelpMojo.class</exclude>
  </excludes>
</instrumentation>
</configuration>
<executions>
  <execution>
    <id>verification</id>
    <phase>verify</phase>
    <goals>
      <goal>check</goal>
      <goal>cobertura</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>javancss-maven-plugin</artifactId>
  <version>2.0</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <ccnLimit>10</ccnLimit>
    <ncssLimit>100</ncssLimit>
    <failOnViolation>true</failOnViolation>
    <excludes>
      <exclude>**/tests/**/*.*</exclude>
    </excludes>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>findbugs-maven-plugin</artifactId>
  <version>3.0.3</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <failOnError>true</failOnError>
    <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
  </configuration>

```

```

<executions>
  <execution>
    <goals>
      <goal>check</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>jdepend-maven-plugin</artifactId>
  <version>2.0</version>
</plugin>
</plugins>
</build>
<dependencies>
<dependency>
  <groupId>dk.brics.automaton</groupId>
  <artifactId>automaton</artifactId>
  <version>1.11-8</version>
</dependency>
<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.12</version>
  <scope>test</scope>
</dependency>
<dependency>
  <groupId>org.hamcrest</groupId>
  <artifactId>hamcrest-junit</artifactId>
  <version>2.0.0.0</version>
  <scope>test</scope>
</dependency>
</dependencies>
</project>

```

Found in path(s):

* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml

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```

1.292 junixsocket-common 2.3.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
```

jar/org/newsclub/net/unix/AFUNIXSocket.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/Closeables.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/SuppressFBWarnings.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/NativeUnixSocket.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXSocketImpl.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXSocketCapability.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXSocketFactory.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXServerSocket.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/NativeLibraryLoader.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXSocketAddress.java
* /opt/cola/permits/1258507885_1643078430.71/0/junixsocket-common-2-3-2-sources-
jar/org/newsclub/net/unix/AFUNIXSocketCredentials.java

1.293 objenesis 1.0

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1.294 docker-java-transport 3.2.5

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1.295 acl 2.2.52 3build1

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Ty Coon, President of Vice

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1.296 qemu 2.11+dfsg-1ubuntu7.39

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```
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 * FreeBSD strace list
 *
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 * along with this program; if not, see <http://www.gnu.org/licenses/>.
 */
```

```

{ TARGET_FREEBSD_NR__acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR__acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR__sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\", %#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\", %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },

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{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\"%s\", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\", %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\"%s\", %o, %x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%x, %x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\", %x, %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\", %x, %o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },

```

```

{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\", \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

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1.297 spring-context 4.3.22.RELEASE

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/export/MBeanExportOperations.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/
```

Found in path(s):

```
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/remoting/RemoteAccessException.java
```

* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/export/assembly/AbstractConfigurableMBeanInfoAssembler.java
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/**

* { @link FactoryBean } that obtains a WebSphere { @link javax.management.MBeanServer }
reference through WebSphere's proprietary { @code AdminServiceFactory } API,

* available on WebSphere 5.1 and higher.

*

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

* This FactoryBean is a direct alternative to { @link MBeanServerFactoryBean },

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

*

* <p>See the javadocs for WebSphere's

* { @code AdminServiceFactory }

* and { @code MBeanFactory }.

*

* @author Juergen Hoeller

* @author Rob Harrop

* @since 2.0.3

* @see javax.management.MBeanServer

* @see MBeanServerFactoryBean

*/

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/instrument/classloading/jboss/JBossMCAdapter.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions } match.
 *
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 * <p>The { @code @Conditional } annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component }, including { @link Configuration @Configuration } classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any { @link Bean @Bean } method</li>
 * </ul>
 *
 * <p>If a { @code @Configuration } class is marked with { @code @Conditional },
 * all of the { @code @Bean } methods, { @link Import @Import } annotations, and
 * { @link ComponentScan @ComponentScan } annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * { @code @Conditional } itself is not declared as
 * { @link java.lang.annotation.Inherited @Inherited }; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * { @code @Conditional } must not be declared as { @code @Inherited }.
 *
 * @author Phillip Webb
 * @author Sam Brannen
```

* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/validation/MapBindingResult.java
```

1.298 spring-expression 5.2.9.RELEASE

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1.303 aspect-j 1.8.7

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1.304 hostname 3.20

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1.307 jradius-core 1.1.6-SNAPSHOT

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1.311 Isb 9.20170808ubuntu1

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1.312 gzip 1.6 5ubuntu1.1

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Version 3, 29 June 2007

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```
@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
@c End:
```

1.313 resourcelocator 1.0.3

1.313.1 Available under license :

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1.314 datasource-proxy 1.4.1

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```

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```
* /opt/cola/permits/1283431886_1646721486.27/0/datasource-proxy-1-4-1-sources-jar/META-INF/maven/net.tdddy/datasource-proxy/pom.xml
```

1.315 adduser 3.116ubuntu1

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#

include/freetype/internal/fthash.h

```
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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1.319 shiro-crypto-core 1.7.1

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1.320 tar 1.29b 2ubuntu0.2

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1.326 jersey-hk2 2.30.1

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1.328 rdma-core 17.1-1ubuntu0.2

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Upstream-Name: rdma-core

Upstream-Contact: Doug Ledford <dledford@redhat.com>,

Leon Romanovsky <Leon@kernel.org>

Source: <https://github.com/linux-rdma/rdma-core>

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java

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- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DefaultHeaders.java

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/Headers.java

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java

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- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/ZlibEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/serialization/ReferenceMap.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/ZlibWrapper.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/base64/Base64Encoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Snappy.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/PrematureChannelClosureException.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/ZlibDecoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/CorruptedFrameException.java
- * /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-

jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/string/StringDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-

jar/io/netty/handler/codec/ReplayingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/base64/package-info.java
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jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/Delimiters.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/TooLongFrameException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-

jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/bytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DecoderException.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

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*/

/**

* Enumeration of supported Base64 dialects.

* <p>

* The internal lookup tables in this class has been derived from

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* Base64 Encoder/Decoder.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codecs/base64/Base64Dialect.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/json/package-info.java

```
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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```

```
*/
```

```
/**
```

```
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
```

```
* <p>
```

```
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
```

```
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header</h3>
```

```
*
```

```
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
```

```
* <pre>
```

```
* <b>lengthFieldOffset</b> = <b>0</b>
```

```
* <b>lengthFieldLength</b> = <b>2</b>
```

```
* lengthAdjustment = 0
```

```
* initialBytesToStrip = 0 (= do not strip header)
```

```
*
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
```

```
* +-----+-----+      +-----+-----+
```

```
* | Length | Actual Content |-----| Length | Actual Content |
```

```

* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* { @link ByteBuf#readableBytes() }, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>

```



```

*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |----->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>

```

```

* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x00C | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |   | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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*/
```

Found in path(s):

```
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1.335 shiro-quartz 1.7.1

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
```

lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c

lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.343 jul-to-slf4j 1.7.30

1.343.1 Available under license :

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

```
/**
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135864176_1613618002.1/0/jul-to-slf4j-1-7-30-sources-1-
jar/org/slf4j/bridge/SLF4JBridgeHandler.java
```

1.344 libsepol 2.7-1

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This package was debianized by Russell Coker <russell@coker.com.au> on
Fri, 20 Aug 2004 17:26:18 +1000.

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.345 mapstruct 1.2.0.Final

1.346 jetty-annotations 9.4.31.v20200723

1.346.1 Available under license :

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

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* org.eclipse.jetty.orbit:javafx.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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

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

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

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.

FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.

usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.

*.1 Unix-style man pages for programs (same info as usage.doc).

wizard.doc Advanced usage instructions for JPEG wizards only.

change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.

structure.doc Overview of the JPEG library's internal structure.

filelist.doc Road map of IJG files.

coderrules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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

the hierarchical or lossless processes defined in the standard.

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

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

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

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

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot

legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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REFERENCES

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

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

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

The best full description of JPEG is the textbook "JPEG Still Image Data

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

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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

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

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp://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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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

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

version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately 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

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

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

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.348 httpcomponents-client 4.5.13

1.348.1 Available under license :

Apache HttpComponents Client

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1.351 log4j-web 2.17.0

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1.352 jetty-xml 9.4.31.v20200723

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Eclipse

The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.353 scowl 2017.08.24-1

1.353.1 Available under license :

This package was debianized by David Coe <davidc@debian.org> on Sun, 15 Jun 2003.

SCOWL (Spell Checker Oriented Word Lists) is a collection of English word lists maintained by Kevin Atkinson <kevina@users.sourceforge.net>

It was downloaded from:

<http://prdownloads.sourceforge.net/wordlist/scowl-5.tar.gz>

SF project page:

<http://wordlist.sourceforge.net/>

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked
"copyright" was avoided. Locally-written documentation was one
source. An earlier version of the list resided in a filespace called
PUBLIC on the University mainframe, because it was considered public
domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at
least 11 of 12 dictionaries as indicated in the 12Dicts package. All
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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the

ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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Accent information was taken from UKACD.

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```
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```
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```

```
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Ty Coon, President of Vice
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1.355 pam 1.1.8-3.6ubuntu2.18.04.3

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

```
=====
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+ PAM_MODUTIL_DEF_PRIVS(privs);
+
+ /* Get the password entry */
+ pwd = pam_modutil_getpwnam (pamh, user);
+ if (pwd != NULL)
+ {
+ if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+ pam_syslog(pamh, LOG_ERR,
+ "Unable to change UID to %d temporarily\n",
+ pwd->pw_uid);
+ retval = PAM_SESSION_ERR;
+ goto finished;
+ }
+
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+ goto finished;
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+ goto finished;
+
+ if (stat(flag, &s) != 0)
+ {
+ display_file(pamh, "/etc/legal");
+ mkdir(dir, 0700);
+ f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+ S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);

```

```

+     if (f>=0) close(f);
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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1.356 apache-log4j 2.17.0

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